SAMSUNG

Instruction Manual

DVD-HR720

TV GUIDE TV Guide On Screen User's Manual is attached as an appendix.

English

DVD VIDEO RAM/RW   DVD VIDEO   COMPACT disc DIGITAL VIDEO   COMPACT disc DIGITAL AUDIO
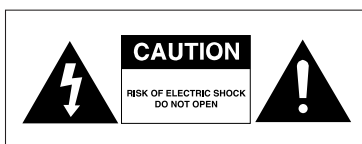
www.samsung.com

AK68-00758B-01

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

> **CAUTION**
> RISK OF ELECTRIC SHOCK
> DO NOT OPEN

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION : HDD & DVD RECORDERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE HDD & DVD RECORDER CORRECTLY AS INSTRUCTED.

CAUTION
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTIONS
Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.
Attention: Pour éviter les chocs électriques, introduíre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu au fond.
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

· Reorient or relocate the receiving antenna.
· Increase the separation between the equipment and receiver.
· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
· Consult the dealer or an experienced radio/TV technician for help.

NOTE

■ This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.

■ This HDD & DVD recorder is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this HDD & DVD recorder, the HDD & DVD recorder cannot play the disc.

■ This device is protected by U.S. Patent Nos.4,631,603;4,577,216;4,819,098;4,907,093; and 6,516,132.This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights.Use of this copyright protection technology must be authorized by Macrovision,and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision.Reverse engineering or disassembly is prohibited.

DANGER	–	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION	–	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ATTENTION	–	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	–	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO !	–	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	–	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	–	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	–	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	–	打开时有可见及不可见激光辐射．避免激光束照射．
注意	–	ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。

Precaution

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this HDD & DVD RECORDER, be sure to turn them all off.
- Do not move the HDD & DVD RECORDER while a disc is being played, or the disc may be scratched or broken, the HDD & DVD RECORDER's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the HDD & DVD RECORDER.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this HDD & DVD RECORDER. If this occurs, turn the HDD & DVD RECORDER off and on again with the **DVD POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The HDD & DVD RECORDER will operate normally.
- Be sure to remove the disc and turn off the HDD & DVD RECORDER after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the HDD & DVD RECORDER for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

HDD (Hard Disc Drive)

The hard disk has a high storage density, which enables long recording durations and quick access to written data. However, it can easily be damaged by shock, vibration or dust and should be kept away from magnets. To avioid losing important data, observe the following precautions.

- Do not use the HDD & DVD RECORDER in a place subject to extreame changes in temperature.
- Do not apply a strong shock to the HDD & DVD RECORDER.
- Do not place the HDD & DVD RECORDER in a location subject to mechanical vibrations or in an unstable location.

・Do not place the HDD & DVD RECORDER on top of a heat source.
・Do not disconnect the AC power cord while the power is on.
・Do not attempt to change the hard disk. This may result in a malfunction.

Should the hard disk be damaged, you cannot recover lost data. The hard disk is only a temporary storage space.

Disc Handling

・Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this HDD & DVD RECORDER may be damaged.
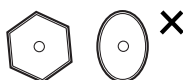
Holding discs

・Avoid touching the surface of a disc where recording is performed.

DVD-RAM, DVD-RW and DVD-R

・Clean with an optional DVD-RAM/PD disc cleaner.
・Do not use cleaners or cloths for CDs to clean DVD-RAM/ -RW/-R discs.

DVD-Video, Audio-CD

・Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

・Do not write on the printed side with a ball-point pen or pencil.
・Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
・Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
・Do not use scratch-proof protectors or covers.

・Do not use discs printed with label printers available on the market.
・Do not load warped or cracked discs.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.
・Do not keep under direct sunlight.
・Keep in a cool ventilated area.
・Store vertically.
・Keep in a clean protection jacket.
・Did you move your HDD & DVD RECORDER suddenly from a cold place to a warm place? In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to playback again. It will work properly when condensation has evaporated.
・Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

Disc Specifications

DVD-Video

・A digital versatile disc (DVD) can contain up to 135-minutes of images, 8-language audio and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby 3D surrounding, allowing you to enjoy vivid and clear theater quality images in the comfort of your own home.
・When switching from the first layer to the second layer of a double-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
・Once a DVD-RW/-R recorded in Video Mode is finalized, it becomes DVD-Video.

Audio CD

・An audio disc on which 44.1kHz PCM Audio is recorded.
・Plays CD-DA format audio CD-R and CD-RW discs. The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-RW/-R

MP3 CD-RW/-R

• Only CD-R discs with MP3 files recorded with ISO9660 or JOLIET format can be played back

• Only MP3 files with the ".mp3", ".MP3" extension can be used.

• For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in out.

• Playable bitrate range is from 56Kbps to 320Kbps.

• The unit can handle a maximum of 1000 files and folders.

JPEG CD-RW/-R

• Only JPEG files with the ".jpg", ".JPG" extension can be used.

• The unit can handle a maximum of 1000 files and folders.

• Maximum size of progressive JPEG is 3M pixels.

• MOTION JPEG is not supported.

Using CD-RW/-R

• Use a 700MB(80 minutes) CD-RW/-R disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.

• If the CD-RW/-R disc was not recorded as a closed session, you may experience a delay in the early playback time, and all recorded files may not play.

• Some CD-RW/-R discs may not be playable with this unit, depending on the device which was used to burn them.

For contents recorded on CD-RW/-R media from CDs for your personal use, playability may vary depending on contents and discs.

DVD-R Disc Playback and Recording

• Once a DVD-R recorded in Video Mode is finalized, it becomes a DVD-Video disc.

• You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programs and erasing programs before finalizing.

• When programming is erased from a DVD-R, that space does not become available. Once an area on a DVD-R is recorded on, that area is no longer available for recording, whether the recording is erased or not.

• It takes about 30 seconds for the unit to complete recording management information after recording finishes.

• This product optimizes the DVD-R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is carried out too many times.

• Playback may be impossible in some cases due to the condition of recording.

• This unit can play back DVD-R discs recorded and finalized with a Samsung DVD video recorder. It may not be able to play some DVD-R discs depending on the disc and the condition of the recording.

DVD-RW Disc Playback and Recording

• Recording and playback can be performed on DVD-RW discs in both the Video and VR Modes.

• Once a DVD-RW recorded in VR Mode or Video mode is finalized, you cannot perform addtional recording.

• Once a DVD-RW recorded in Video Mode is finalized, it becomes DVD-Video.

• In both modes, playback can be performed before and after finalization, but additional recording, deleting and editing can not be performed after finalization.

• If you want to record the disc in VR Mode and then record in V Mode, be sure to execute Format. Be careful when executing Format because all the recorded data may be lost.

• A DVD-RW blank disc is initialized to VR Mode when first initialized.

• DVD-RW (VR mode)

  - This is a format that is used for recording data on a DVD-RAM or DVD-RW disc. You can record multiple titles, edit, delete, partial delete, create a playlist, etc.

  - A disc that is recorded in this mode may not be played by an existing DVD player.

• DVD-RW (Video mode)

  - This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by an existing DVD player once it has been finalized.

  - If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalized, it cannot be played or additionally be recorded by this HDD & DVD RECORDER.

DVD-RAM Disc Playback and Recording

• DVD-RAM discs come with or without a cartridge. For this product, we recommend DVD-RAM discs that come without cartridges.

• Ensure that the recording mode is set to VR mode. Otherwise, this product will not be able to play the recording.

• You cannot play a DVD-RAM in most DVD players due to compatibility issues.

• Only DVD-RAM standard Version 2.0. discs can be played in this unit.

• DVD-RAM recorded on this unit may not work with other DVD players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

• For cartridge type DVD-RAM discs, remove the cartridge and use the disc only.

▌ Disc Copy

Contents Copy Specifications

Contents	HDD → DVD	DVD → HDD
Recorded Video Title	Supported	Supported
Copy Protected Title	Not supported	Not supported
Copy Once Title	Move (Deletes the Title in the HDD after copying)	Not supported
MP3	Not supported	supported
JPEG(photo)	Not supported	supported

Once "Copy Once program" has been recorded on the DVD disc, this title cannot be copied to HDD anymore. But "Copy Once program" has been recorded on the HDD, this title can be copied to DVD-RW(VR mode) or DVD-RAM.

COPY PROTECTION

• Many DVD discs are encoded with copy protection. Because of this, you should only connect your HDD & DVD RECORDER directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.

• This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection

This HDD & DVD RECORDER can allow you to protect the contents of your discs, as described below.

✱ DVD-RAM/-RW/-R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.

✱ For more information on DVD recording compatibility, consult your DVD-RAM/-RW/-R manufacturer.

✱ Use of poor quality DVD-RAM/-RW/-R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the HDD & DVD RECORDER.

Do not use the following discs!

• LD, CD-G, CD-I, CD-ROM, DVD-ROM, DVD+R and DVD+RW discs should not be used in this product. [Note]
Disc types that can be played : CD/CD-R/CD-RW/MP3/JPEG/DVD-Video/DVD-RAM/-RW/-R. For a DVD-RW/-R disc, which has been recorded in Video Mode on another component, it can play only when finalized.

• Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code." will be displayed.

• If your DVD-RW disc is an illegal copy or is not in DVD video format, it may also not be playable.

Disc compatibility

• High Speed Recording discs can be used in this unit.

• Not all brands of discs will be compatible with this unit.

• The latest firmware upgrade to improve recording & playback quality can be downloaded from our web site. (Download Center at www.samsung.com)

• If disc compatibility problems continue, or there is an issue upgrading your HDD & DVD RECORDER, contact the Call Center at 1-800-SAMSUNG.

Contents

Getting Started

Connecting & Setting up

System Setup

Playback

Recording

Editing

Additional Information

TV Guide On Screen® User Manual

General Features

The HDD (Hard Disk Drive) & DVD RECORDER allows you to record and play high quality digital video on DVD-RAM/-RW/-R discs or on the HDD. You can also edit digital images on DVD-RAM/-RW/-R discs or HDD.

HDD Recording

You can record up to 208 hours of video (in Extend EP mode) on the internal 120GB (gigabyte) hard disk (HDD). With both recordable DVD and a high-capacity HDD in the same recorder, you have the flexibility to keep recordings on the HDD for quick access anytime, or record to DVD for archiving or playing on other DVD players.

Copy between HDD and DVD

You can copy recordings from the HDD to recordable DVD, or from DVD to the HDD. Usually you can use the high speed copy feature.
You can also choose to copy material at a different recording quality from the original. For example, you might want to copy at XP mode (highest quality) recording on the HDD to SP (standard play) quality on a DVD so that you can fit other recordings on the same disc.

Simultaneous Recording and Playback

Playback and recording for both the DVD and the built-in hard disk drive (HDD) are completely independent. For example you can record a broadcast program to either a recordable DVD or the HDD, while watching another recording you already made on the same DVD or on the HDD.

High quality digital audio and video recording and playback
Record up to 16-hours of video with a double sided 9.4 GB DVD-RAM disc, up to 8-hours of video with a 4.7 GB DVD-RAM/-RW/-R disc, up to 208 hours of video with the HDD, depending on the recording mode.

Selectable Recording Mode

You can set your HDD & DVD RECORDER to one of four different recording speeds, each varying in recording quality and length. EP (6Hr or 8Hr) mode yields the most recording time, LP & SP modes provide less recording time with higher quality recording, XP mode gives you the highest quality recording.

Creating a DVD video title using DVD-RW/-R disc

With the HDD & DVD RECORDER, you can create your own DVD Video titles on 4.7 GB DVD-RW/-R discs.

Copying data from a digital camcorder using a DV input jack

Record DV Device video onto HDD, DVD-RAM, DVD-RW or DVD-R discs using the DV input jack (IEEE 1394-4pin/4pin). (See page 83)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See pages 44~46)

A variety of functions with an easy-to-use user interface

The integrated menu system allows you to perform desired operations both easily and conveniently. With a HDD, DVD-RAM or DVD-RW disc, you can edit recorded video, create a playlist, edit video in a specific sequence according to your requirements.

Before Reading the User's Manual

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
🗄 HDD	HDD	This involves a function available on the HDD.
◎ DVD-VIDEO	DVD	This involves a function available on DVD or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode.
◎ DVD-RAM	RAM	This involves a function available on DVD-RAM.
◎ DVD-RW	RW	This involves a function available on DVD-RW.
◎ DVD-R	R	This involves a function available on DVD-R.
◎ CD	CD	This involves a function available on a data CD (CD-R or CD-RW).
◎ JPEG	JPEG	This involves a function available on CD-R/-RW.
◎ MP3	MP3	This involves a function available on CD-R/-RW.
❗	Caution	This involves a case where a function does not operate or settings may be cancelled.
✎	NOTE	This involves tips or instructions on the page that help each function operate.
👆	One-Touch button	A function that can be operated by using only one button.
ANYKEY	ANYKEY button	A function that can be operated by using **ANYKEY** button.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~6)
2) If a problem occurs, check the Troubleshooting. (See pages 120~123)

How to use the HDD & DVD RECORDER

Step 1   Select the disc type or HDD

This unit can record on the following types of discs. If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD-RW or DVD-RAM type disc. If you want to save a recording without any changes, choose a non-rewritable DVD-R. You can record files directly to the built-in HDD or edit a recorded file.

HDD   **DVD RAM**   **DVD RW**   **DVD R**

Step 2   Format the disc to start recording

Unlike a VCR, the HDD & DVD RECORDER automatically starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using the HDD
Formatting unneccessory.

Using a DVD-RAM
This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded video and create a playlist and edit video in a specific sequence according to your requirements.

Using a DVD-RW
This type of disc can be formatted in either DVD-Video format (V mode) or DVD-Video Recording format (VR mode). For an unused disc, a message that asks whether to format in VR Mode or not is displayed. You can play a Video mode disc on various DVD components. A VR mode disc allows more varied editing.

Using a DVD-R
This type of disc can be formatted in DVD Video format. After formatting is complete, you can record on the disc. You can play these type of discs on various DVD components only when they have been finalized.

- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can change the DVD-RW to another format by reinitializing. It should be noted that the disc's data will be lost when changing formats.

Step 3   Recording

There are two different recording methods, Direct Recording and Timer Recording. Timer recording is classified as Follows:

Recording mode : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode)

Step 4   Playing

You can select the title you want to play in a displayed menu and then immediately start playback.

A DVD consists of sections, called titles, and sub- sections, called chapters.

During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically when you finalize recording on DVD-RW/-R discs in Video mode.

The chapter's length (interval between chapters) varies according to the recording mode.

Step 5   Editing a recorded disc

Editing on discs is easier than conventional video tapes. The HDD & DVD RECORDER supports many different edit functions, possible only with DVDs and HDD.

With a simple and easy edit menu, you can operate various edit functions, such as delete, copy, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW in VR mode, HDD)

With this HDD & DVD RECORDER, you can create a new playlist on a disc and edit it without the original, pre-existing recording.

Step 6   Finalizing & Playing on other DVD components

To play your DVD on other DVD components, finalizing may be necessary. First, finish all editing and recording operations, then finalize the disc.

When using a DVD-RW disc in VR Mode

DVD discs recorded in VR mode can only be played back in DVD recorders, not players.

When using a DVD-RW disc in Video Mode

The disc should be finalized first to enable playback on anything other than this HDD & DVD RECORDER. No more editing or recording can be made on the disc once it has been finalized.
To enable recording on the disc again, the disc must be unfinalized.

When using a DVD-R disc

You should finalize the disc to play it on a component other than this HDD & DVD RECORDER. You cannot edit or record on the disc once it has been finalized.

Unpacking

Accessories

Check for the supplied accessories below.

Video/Audio Cable
AC39-00073A
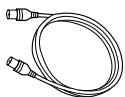
RF Cable for TV
AC39-42001J

IR Blaster cable
AK39-00055A

Remote Control
AK59-00023L

Batteries for Remote
Control (AAA Size)
AC43-12002H
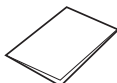
Quick Guide
AK68-00827B
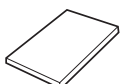
Instruction Manual
AK68-00758B
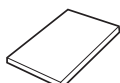
TV Guide Setup
Quick Guide
AK68-00827D

Preparing the Remote Control

Install Batteries in the Remote Control
· Open the battery cover on the back of the remote control.
· Insert two AAA batteries. Make sure that the polarities
 (+ and -) are aligned correctly.
· Replace the battery cover.

If the remote does not operate properly:
· Check the polarity + - of the batteries (Dry-Cell)
· Check if the batteries are drained.
· Check if remote sensor is blocked by obstacles.
· Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.
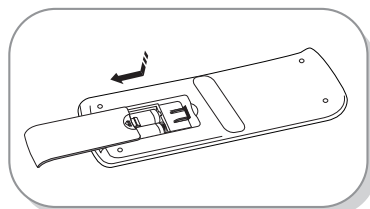
Setting the Remote Control

You can control certain functions of another manufacturer's TV with this remote control. Control function buttons involve: **TV POWER**, **CH∧ ∨**, **TV VOL + -**, **number buttons,** TV MUTE, **INPUT** button.

Controlling TVs with the Remote Control
1. Press and hold the **TV POWER** button.
2. Enter a 2-digit code by using the numerical buttons on the remote control.

See "Controllable TV Codes"
If the code works, your TV set will be turned on or off.
If it does not respond, try other codes.
Controllable TV Codes.

BRAND	BUTTON
AIWA	82
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18
BANG & OLUFSEN	57
BLAUPUNKT	71
BRANDT	73
BRIONVEGA	57
CGE	52
CONTINENTAL EDISON	75
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
EMERSON	64
FERGUSON	73
FINLUX	06, 49, 57
FORMENTI	57
FUJITSU	84
GRADIENTE	70
GRUNDIG	49, 52, 71
HITACHI	60, 72, 73, 75
IMPERIAL	52
JVC	61, 79
LG	06, 19, 20, 21, 22, 78
LOEWE	06, 69
LOEWE OPTA	06, 57
MAGNAVOX	40
METZ	57
MITSUBISHI	06, 48, 62, 65
MIVAR	52, 77
NEC	83
NEWSAN	68
NOBLEX	66
NOKIA	74
NORDMENDE	72, 73, 75
PANASONIC	53, 54, 74, 75
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RCA	45, 46
REX	74
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SALORA	74
SAMSUNG	01,02,03,04,05,06,07,08,09
SANYO	41, 42, 43, 44, 48
SCHNEIDER	06

BRAND	BUTTON
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SIEMENS	71
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SONY	35, 48
TELEAVA	73
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THOMSON	72, 73, 75
THOMSON ASIA	80, 81
TOSHIBA	47, 48, 49, 50, 51, 52
WEGA	57
YOKO	06
ZENITH	63

✎
NOTE
- If several codes are indicated for your television brand, try each one in turn until you find one that works.
- If you replace the remote control's batteries, you must set the brand code again.

Then you can control the television using the following buttons after pressing the TV button.

Button	Function
TV POWER	Used to switch the television on and off.
INPUT	Used to select an external source.
TV VOL (+ -)	Used to adjust the volume of the television.
CH (∧ ∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
0~9	Used to input number directly.

✎
NOTE
- The functions listed above will not necessarily work on all televisions. If you encounter problems, operate the television directly.

Description

Front Panel
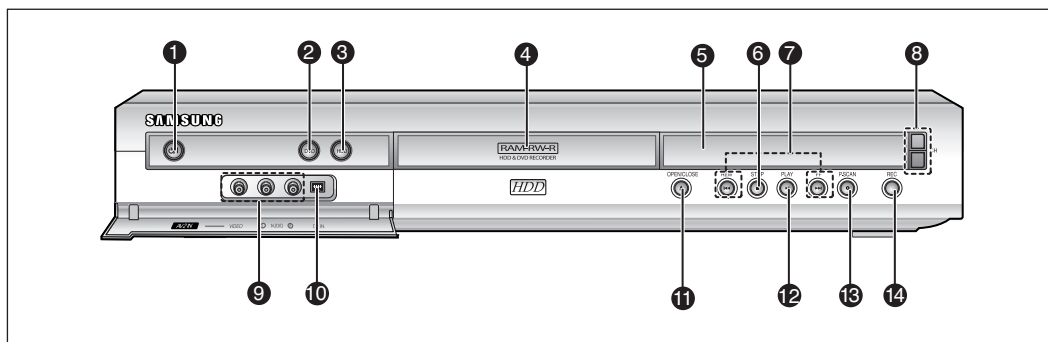
1. **POWER BUTTON**
   Turns the HDD & DVD RECORDER on and off.
2. **DVD BUTTON**
   Select DVD mode.
3. **HDD BUTTON**
   Select HDD mode.
4. **DISC TRAY**
   Opens to accept a disc.
5. **DISPLAY**
   Displays the playing status, time, etc.
6. **STOP BUTTON**
   Stops disc playback.
7. **SEARCH/SKIP BUTTONS**
   Goes to the next title/chapter/track or goes back to the previous title/chapter/track.

8. **CH BUTTONS**
   Select TV preset Channels. Same as **CH** button on the remote control.
9. **AV 2 INPUT**
   Connect external equipment.
10. **DV-INPUT**
    Connect external digital equipment with a DV jack. (such as a camcorder)
11. **OPEN/CLOSE BUTTON**
    Opens and closes the disc tray.
12. **PLAY/PAUSE BUTTON**
    Plays a disc or pauses playback or recording.
13. **P.SCAN BUTTON**
    Selects the progressive scan mode.
14. **REC BUTTON**
    Starts recording.

Front Panel Display
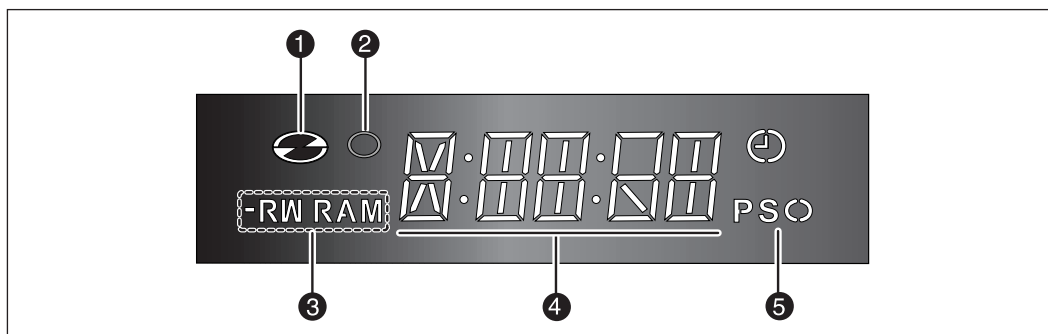
1. Lights when a disc is loaded.
2. Lights in the record mode.
3. Lights when a -R/RW/RAM disc is loaded.

4. Playing time/clock/current status indicator.
5. Lights in the progressive scan mode.

Rear Panel

Fan
Ensure a minimum of 4" clear space on all sides of the
fan when installing the product.
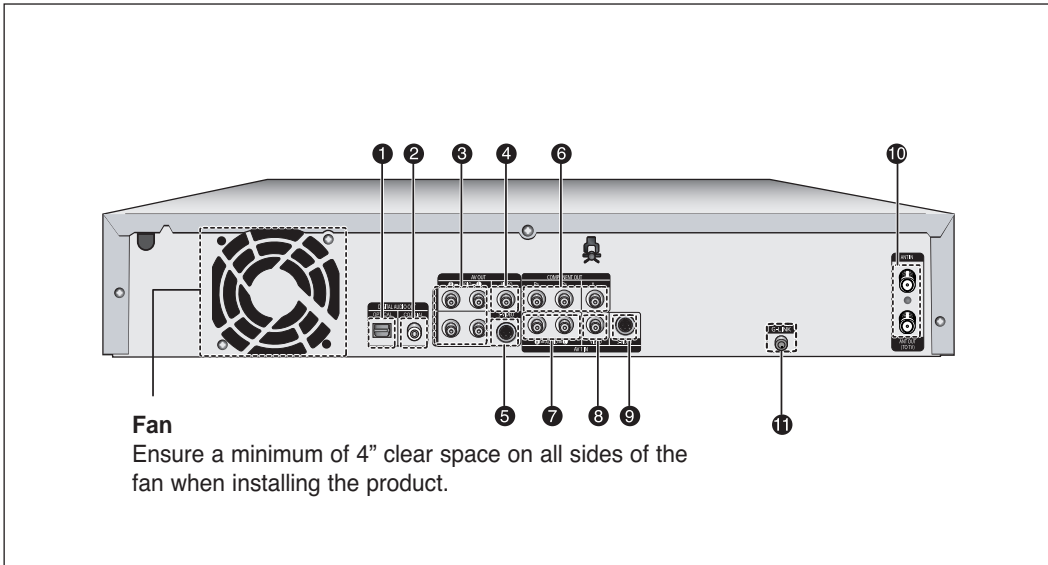
1. DIGITAL AUDIO OUT(OPTICAL)

Connects to an amplifier having a digital optical
audio input jack.

2. DIGITAL AUDIO OUT(COAXIAL)

Connects to an amplifier having a digital coaxial
audio input jack.

3. AV AUDIO OUT

Connects to the audio input of external
equipment using audio cables.

4. AV VIDEO OUT(good video quality)

Connects the input of external equipment using a
Video cable.

5. AV S-VIDEO OUT(better video quality)

Connects the input of external equipment using
an S-Video cable.

6. COMPONENT VIDEO OUT(best video quality)

Connects to equipment having Component video
input jacks.

7. AV 1 AUDIO IN

Connects the output of external equipment using
audio cables.

8. AV 1 VIDEO IN

Connects the output of external equipment using
a video cable.

9. AV 1 S- VIDEO IN

Connects the output of external equipment using
an S-Video cable.

10. ANT IN/ANT OUT (TO TV)

Connects antenna cables.

11. G-LINK

Connection of the IR Blaster for a cable box.

NOTE

- The Antenna connection does not pass the
  output signal of the DVD. To watch
  DVD/HDD playback your TV, you must
  connect audio/video cables.

Tour of the Remote Control

12. MENU Button
Brings up the HDD & DVD RECORDER's setup menu.

13. ENTER/DIRECTION Buttons (▲▼◄ ► Buttons)

14. RETURN Button

15. INFO Button
This will display current setting or disc status.

16. REC Button
Use to make a recording on HDD/DVD-RAM/-RW/-R discs.

17. COPY Button
Press this when you copy DVD to HDD or vice-versa.
To start copying, press the **COPY** button on the title list screen or press the **COPY** button during the playback.

18. REPEAT Button
Allows you to repeat a title, chapter, track or disc.

19. REC PAUSE Button
Use this to pause during recording.

20. TV POWER Button

21. AUDIO/TV MUTE Button
Use this to access various audio functions on a disc (DVD mode). In TV mode, this operates as sound mute.

22. INPUT Button
Select line input signal in external input mode. (Tuner, AV1, AV2 or DV Input)

23. TV Button
Press this to operate TV.

24. OPEN/CLOSE Button
To open and close the disc tray.

25. CM SKIP Button
When a program recorded on DVD disc or HDD is played, the unit can be set to automatically skip a portion of the program.

26. CH Button
Use this to select a TV channel.

27. PLAY/PAUSE Button
Press to play/pause a disc.

28. PLAY LIST/TITLE MENU Button
Use this to return to the Title menu, or to view the recorded files list.

29. ANYKEY Button
Allows access to common functions of the recorder.

30. CANCEL Button

31. SUBTITLE Button
Press this to switch the DVD's subtitle language.

32. TV GUIDE
When watching TV, enters the Guide and highlights a show listing.
When in the Guide, returns to display the current broadcast.

33. MARKER Button
Use this to bookmark a position while playing a disc.

34. REPEAT A-B Button
Allows you to repeat a title, chapter, track or disc.

35. REC MODE Button
Use this to set the desired Recording time and picture quality. (XP/SP/LP/EP)

---

1. DVD POWER Button

2. NUMBER Buttons

3. 100+ Button
Press this to select channel 100 or higher.

4. DVD Button
Press this to operate DVD.

5. HDD Button
Press this to operate HDD.

6. TV VOL Button
TV volume adjustment

7. REVERSE/FORWARD SKIP Buttons

Press to skip backwards or forwards.
PAGE UP/DOWN Buttons When in the guide, moves, when applicable, from one set of screen information to the next

8. REVERSE/FORWARD STEP Buttons

Each press will play one-frame forward or reverse.

9. REVERSE/FORWARD SEARCH Buttons

Press to search a disc backwards or forwards.

10. STOP Button
Press to stop a disc.

11. TITLE LIST/DISC MENU Button
Use this to enter the View Recording list/disc menu.

Connecting & Setting up

This section involves various methods of connecting the HDD & DVD RECORDER to other external components and required initial setting modes.

Quick Overview

A Quick Overview presented in this guide will give you enough information to start using the HDD & DVD RECORDER.

Step 1 : Connecting the Antenna cable

▼

Step 2 : Connecting the Video cable

▼

Step 3 : Connecting the Audio cable

▼

Step 4 : Connecting External devices

▼

Step 5 : Connecting the Power cord

· ***Note to CATV system installer:*** This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

English **- 17**

Step 1: Connecting the Antenna Cable

There are several ways to connect your HDD & DVD RECORDER. Select one of the following antenna connections that best suits you below.

Antenna + HDD & DVD RECORDER + TV : No Cable box

You can record non-scrambled channels by selecting the channel on the HDD & DVD RECORDER. Also use this Method if you watch channels without cable box.
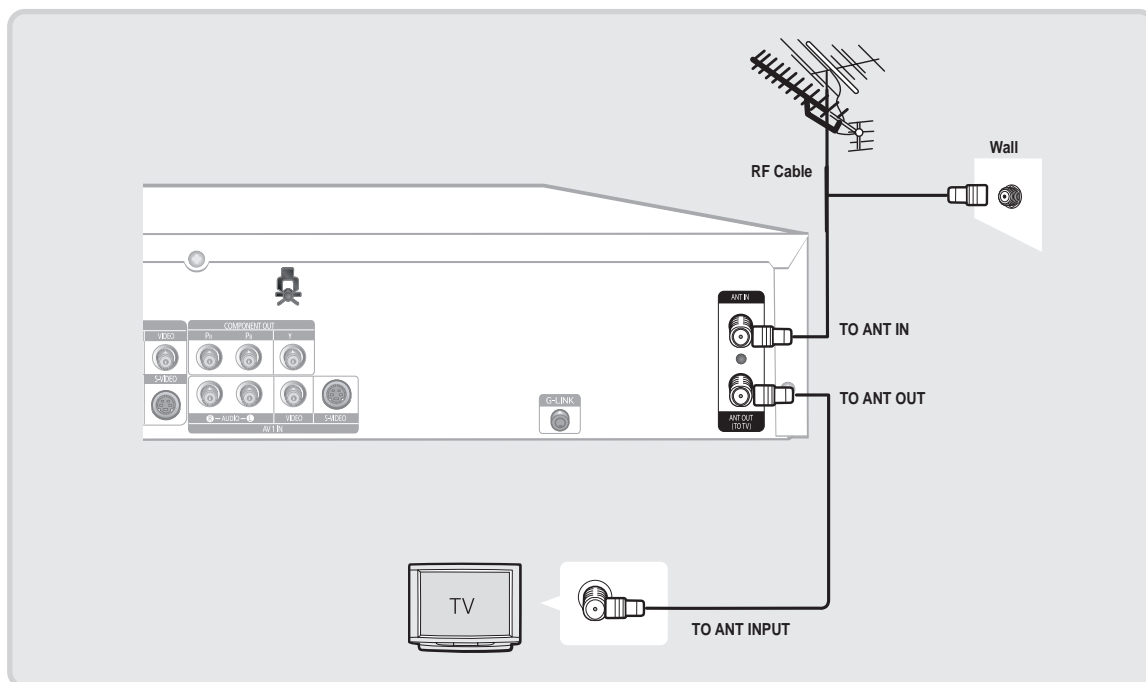
Wall

RF Cable

TO ANT IN

TO ANT OUT

TV

TO ANT INPUT

NOTE

- The VHF/UHF RF OUT jack of this product sends only signals received through the antenna. It does not output Audio/ video signals. You must connect audio/video cables to view Video from the unit. (i.e. DVD playback)

Antenna + Cable box + HDD & DVD RECORDER + TV

You can record channels by selecting the channel on the cable box. You cannot record one channel while watching another channel. Be sure that the cable box is turned on.
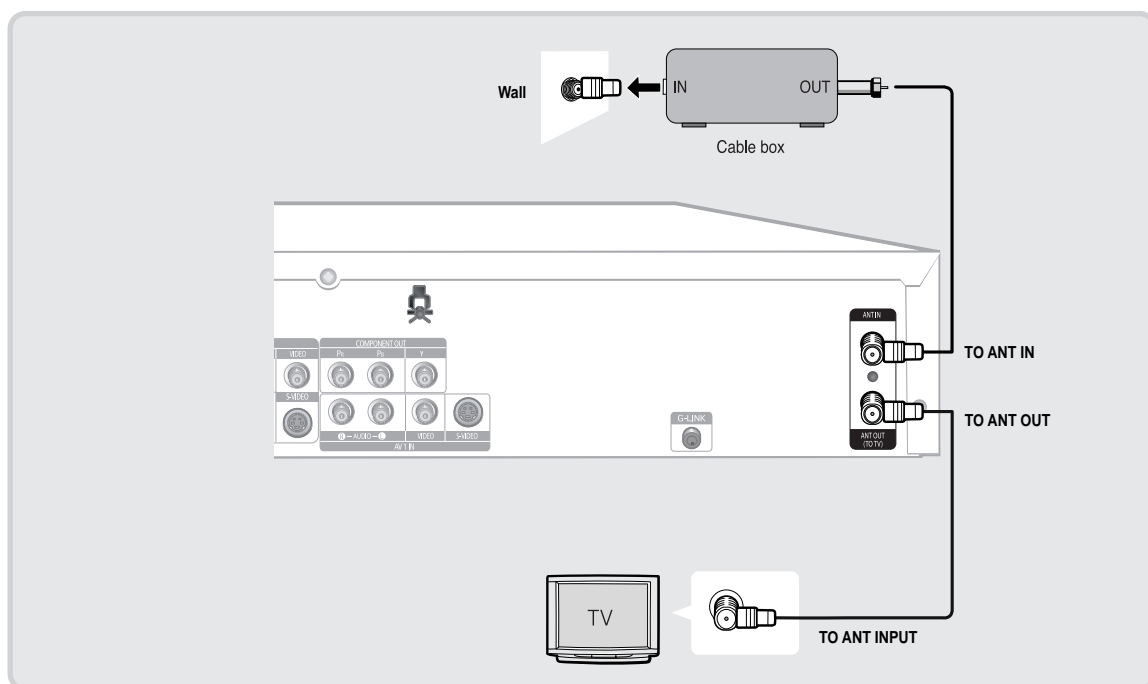
⊗
NOTE ■ The VHF/UHF RF OUT jack of this product sends only signals received through the antenna. It does not output Audio/ video signals. You must connect audio/video cables to view Video from the unit. (i.e. DVD playback)

English **- 19**

Step 2 : Connecting the Video cable

There are several ways to connect your HDD & DVD RECORDER. Select one of the video connections on the following pages. The VHF/UHF RF OUT jack of this product sends only signals received through the antenna. It does not output audio/video signals. You must use one of the following audio/video connections on this unit.

Connecting to a Video input jack

Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on the HDD & DVD RECORDER and VIDEO(yellow) IN jack on the TV (or AV amplifier).
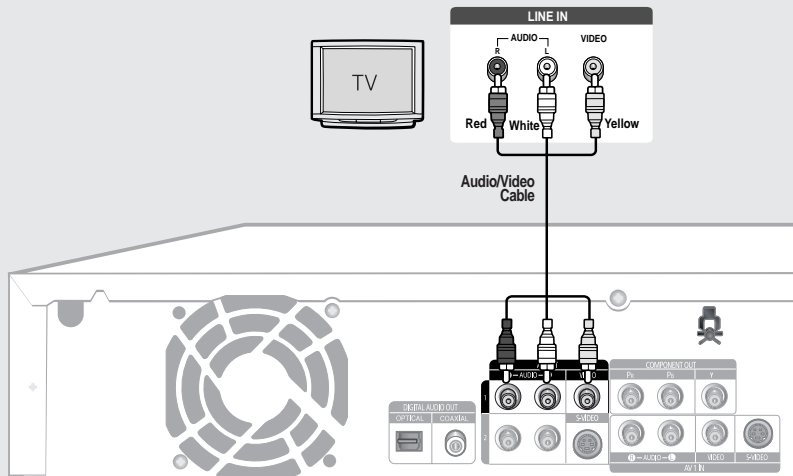
· You will enjoy regular quality images.
· Connect audio cables(white and red) between the
  AUDIO OUT jacks on the HDD & DVD RECORDER
  and AUDIO IN jacks on your TV(or AV amplifier).
  (See pages 23 ~ 25)

▌Connecting to an S-Video input jack

Connect an S-Video cable(not supplied) between the S-VIDEO OUT jack on the HDD & DVD RECORDER and S-VIDEO IN jack on your TV (or AV amplifier).
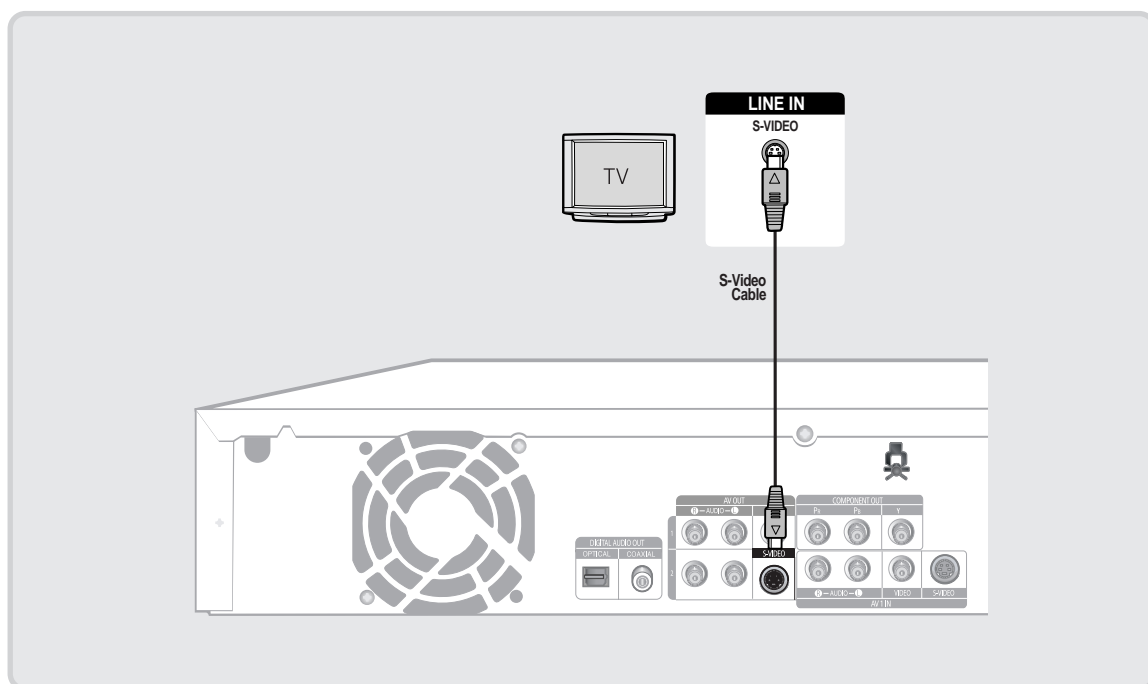
- You will enjoy high quality images. S-Video separates the picture element into black and white (Y) and color (C) signals to present clearer images than regular video input mode.

- Connect audio cables(white and red) between the AUDIO OUT jacks on the HDD & DVD RECORDER and AUDIO IN jacks on your TV(or AV amplifier). (See pages 23 ~ 25)

✎ **NOTE**
- S-Video and Component video outputs are available only if your TV supports S-Video input or Component video input, respectively. If S-Video or Component video output does not work, check the TV connections and the TV input selection settings.

English **- 21**

Connecting to Component video input jacks(Y,P$_B$,P$_R$)
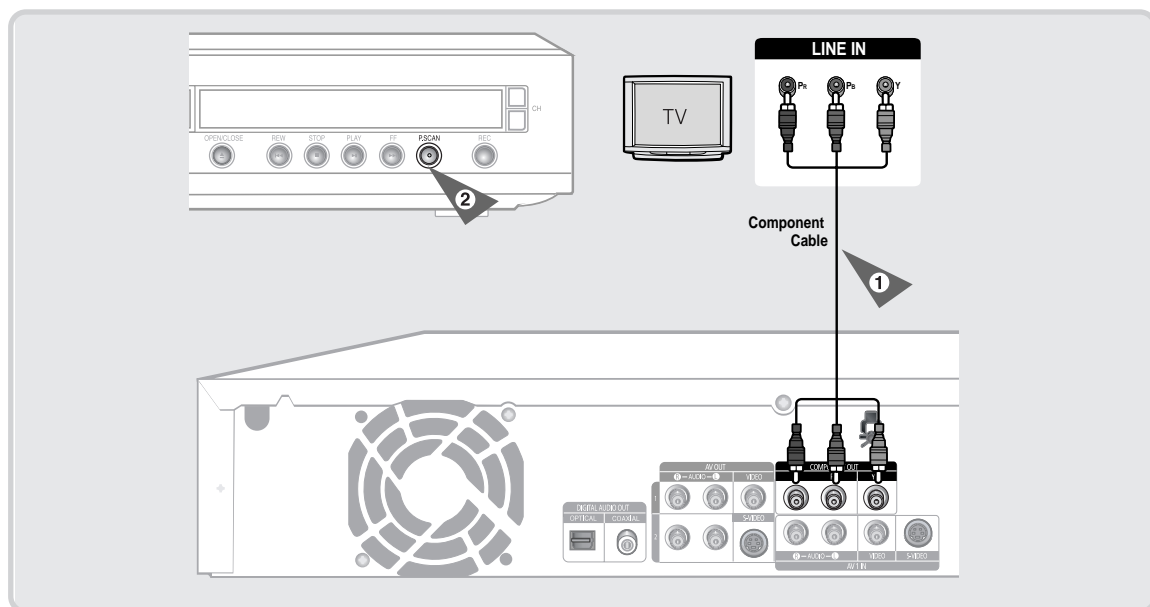
1. Connect Component video cables(not supplied) between the COMPONENT OUT(Y,P$_B$,P$_R$) jacks on the HDD & DVD RECORDER and COMPONENT IN(Y,P$_B$,P$_R$) jacks on your TV (or AV amplifier).
2. If the TV connected supports Progressive Scan, press the P.SCAN button on the front of the HDD & DVD RECORDER to enjoy higher quality video.
3. The message "Press [Yes] to confirm Progressive scan mode. Otherwise press [No]" will appear. Press the ◄ ► buttons to select Yes, and then press the ENTER button.
4. The message "Please set your TV to Progressive input, To deactivate, press [STOP] key." will appear.
   Press the ENTER button.
5. The message "Video Output Mode Progressive Scan" will appear.
• You will enjoy high quality accurate color reproduction images. Component video separates the picture element into black and White(Y), blue(P$_B$), red(P$_R$) signals to present clear and clean images.

• Connect audio cables(white and red) between the AUDIO OUT jacks on the HDD & DVD RECORDER and AUDIO IN jacks on your TV(or AV amplifier). (See pages 23 ~ 25)

✎
NOTE

■ Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, and clear image than interlaced video. The progressive scan video output jack is used in progressive output mode. This is only available with TVs that support progressive scan.
■ Progressive Scan Output (480p) "Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. If you experience 480p progressive scan picture problems, it is recommended that you switch the connection to the 'standard definition' output. If there are questions regarding TV set compatibility with this model, please contact our customer service center at 1-800-SAMSUNG.

Step 3 : Connecting the Audio cable

There are several ways to connect your HDD & DVD RECORDER. Select the audio connection that best suits you below.

Connecting to your TV

This connection will use your TV's speakers.

English **- 23**
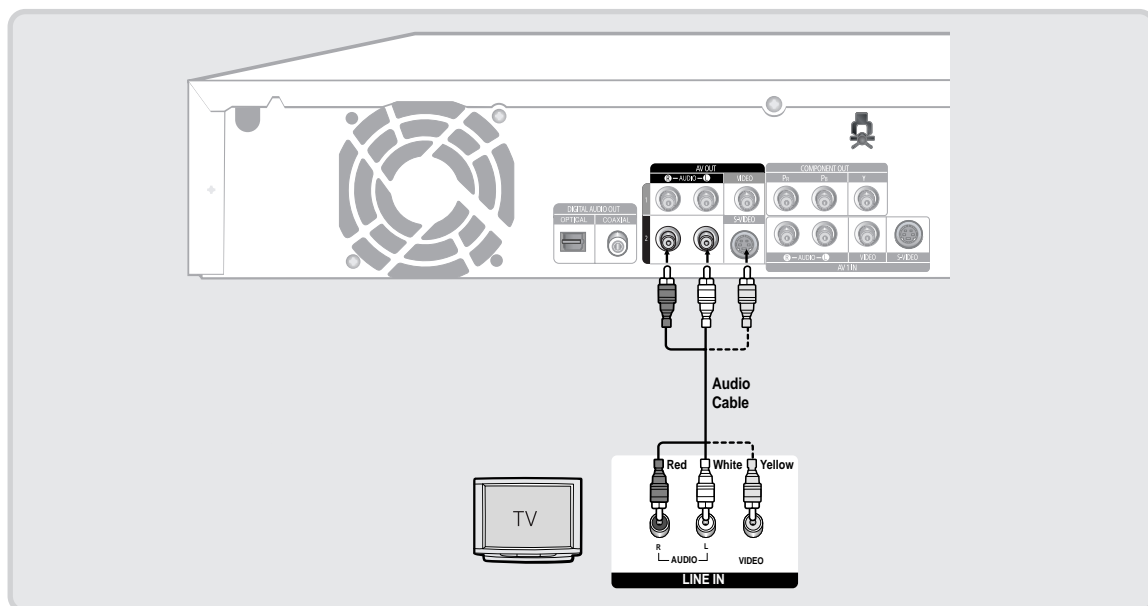
Connecting to a stereo amplifier with analog input jacks

If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT jacks.

24 - English
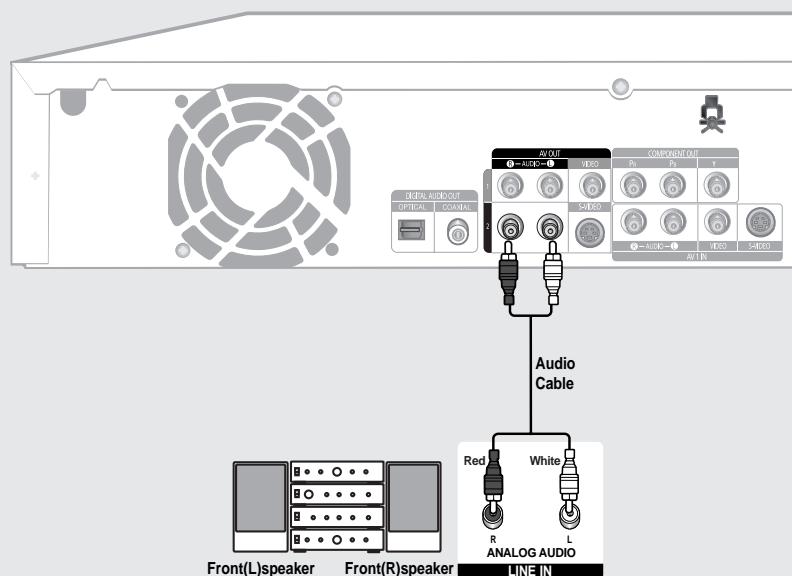
Connecting to an AV amplifier with a digital input jack

If your AV amplifier has a Dolby Digital or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital or DTS sound, you will need to set up the audio settings. (See pages 42~43)

Optical Cable (not supplied) ←or→ **Coaxial Cable (not supplied)**

AV amplifier

Rear(L)   Rear(R)

Front(L)   Front(R)

Subwoofer   Center

Digital Audio
LINE IN
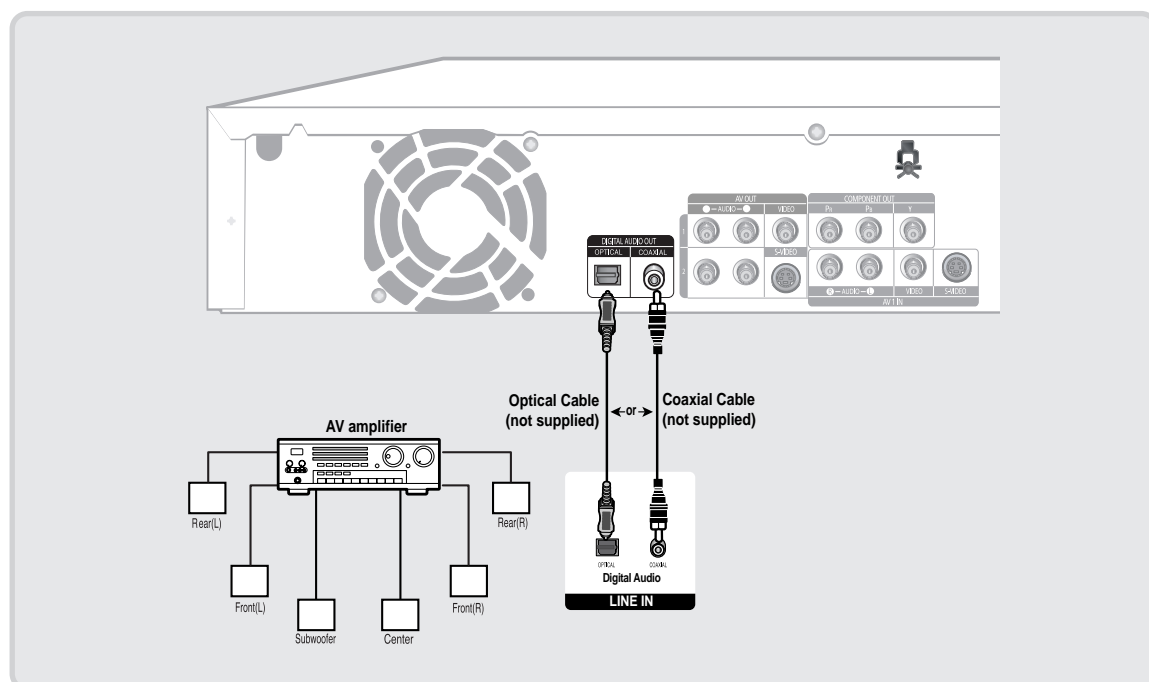
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Step 4 : Connecting External devices

This allows you to connect your HDD & DVD RECORDER to other external devices and view or record their outputs.

Connecting an external device to the AV 1 IN or AV 2 IN jacks

Connect a external device to AUDIO/VIDEO AV 1 IN jacks or AV 2 IN jacks of the HDD & DVD RECORDER.
You can record from connected equipment (VCR, STB, DVD, Cable Box or Camcorder).
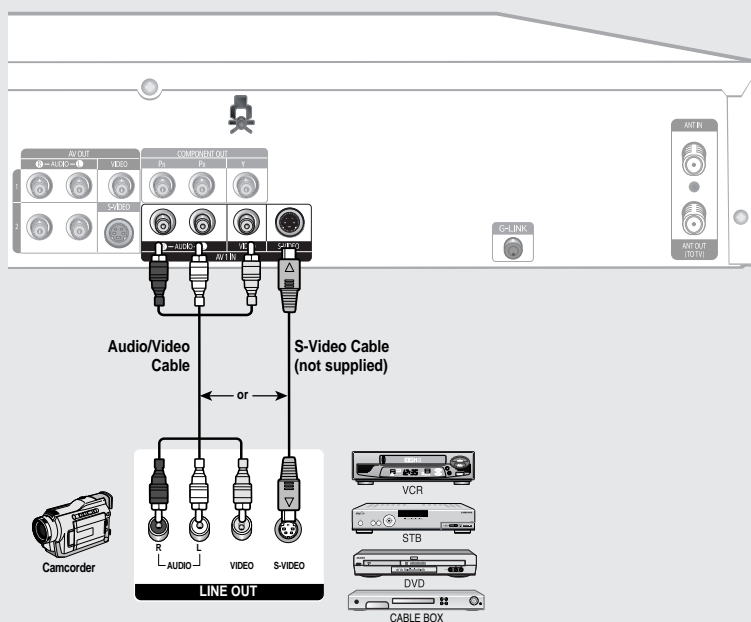
NOTE
- Copy protected content cannot be recorded.

Connecting a Camcorder to the DV IN jack

If your camcorder has a DV output jack, connect it to the DV input jack of your HDD & DVD RECORDER.

DV Cable

DV OUT
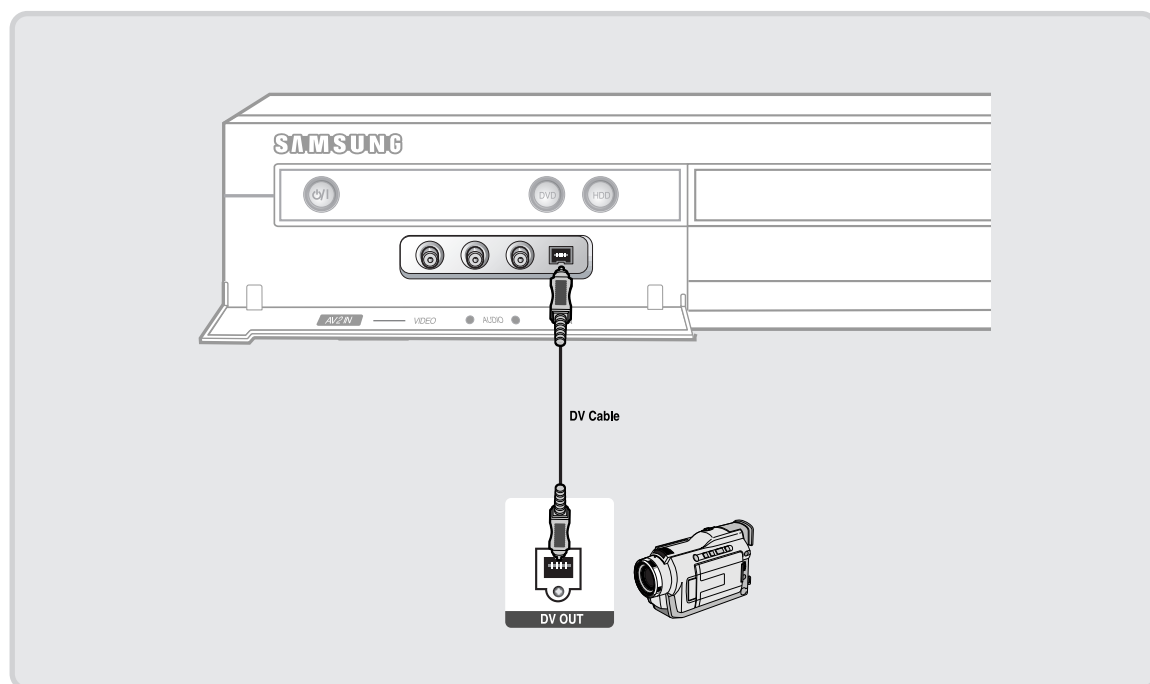
NOTE

■ If the input is not selected automatically, press the INPUT button on the remote to select proper input.

English **- 27**

Connecting a Cable box to the G-Link jack

Your cable box (not supplied) receives Guide show listings from TV Guide On Screen System on the HDD & DVD RECORDER through the IR Blaster cable. Connect your cable box to the G-Link jack on the rear panel of the HDD & DVD RECORDER using the IR Blaster cable as shown. This connection enables you to control the cable box's power and channels.

IR Blaster cable

1 inch

▲ Front Panel of CABLE BOX

G-Link wand
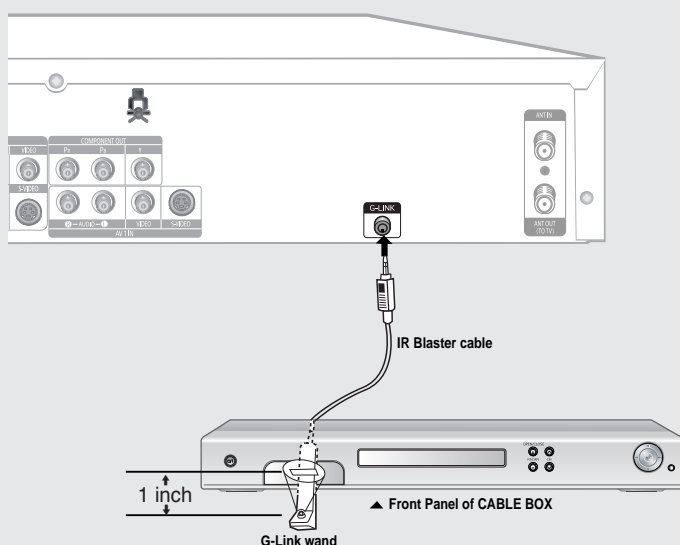
Getting Connected

1. Find and Connect the included G-Link cable into the G-LINK jack of the HDD & DVD Recorder.
2. Find the Cable Box IR Sensor
   To control cable box recording, find the IR sensor.
   A. Turn the cable box Off.
   B. Hold the cable box's remote so that it touches the front of the device (see Figure 1).
   C. Move the remote across the front while pressing the power button On and Off (Figure 2). (Press and release the power button each time you move the remote; holding down the button will not work.)
   D. When the cable box powers On, you have found the sensor.
   E. Remember the location of the sensor.

Figure 1
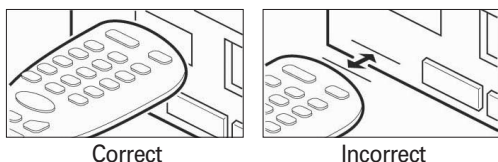
Correct   Incorrect

Figure 2
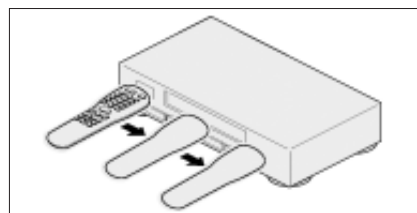
3. Place the G-Link Wand
   Place the G-LINK wand underneath the cable box approximately 1 inch in front of the sensor you found in 2 . Use the double-sided tape to secure the G-LINK wand.

✎ **NOTE**

- You must select a cable box brand from the list in Screen 8 on page 159. If you do not know the brand name, please contact your cable provider. For more information, please refer to pages 158~160.

- After connecting cable box to the HDD & DVD RECORDER through the IR Blaster cable, you must follow the instructions in screen 4 on page 158.

Step 5 : Connecting the Power Cord

"Auto" appears in the panel display. This means that the current time is being set automatically (Auto Program) through the antenna under connection and also the channel is being set.
The setup may take a few minutes.

When the HDD & DVD RECORDER operates normally, the current time is automatically set and displayed in the front panel display.
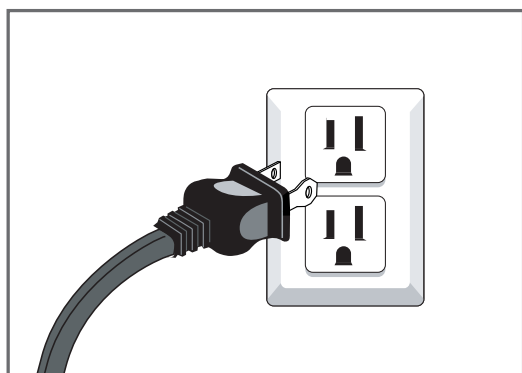
✎
NOTE

■ After the current time is set automatically, HDD & DVD RECORDER will perform Auto Channel Memory for about 3 minutes. If power is turned on while Auto Channel Memory is in process, Auto Channel Memory will stop. In this case, do Auto Channel Memory from MENU (See page 34).

English **- 29**

System Setup

On-Screen Menu Navigation

The on-screen menus allow you to enable or disable
various functions on your HDD & DVD RECORDER.
Use the following buttons to open and navigate
through the on-screen menus.
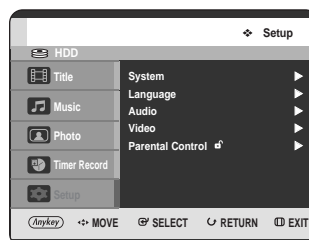
1 MENU Button
Press this button on the remote control to open
the on-screen menu.
Press again to exit the on-screen menu.

2 ▲▼, ◄ ► Buttons
Press these buttons on remote control to move
the selection bar ▲▼, ◄ ► to cycle through the
menu options.

3 ENTER Button
Press this button on the remote control to confirm any
new settings.

4 RETURN Button
Press this button on the remote control to return to
the Previous menu screen displayed or to exit the
on-screen menu.

OSD Language Setup

After plugging in the HDD & DVD RECORDER, the first time you press the POWER button, this screen comes up.
(This screen will only appear when you plug in the HDD & DVD RECORDER for the first time.)

1 Press the **HDD & DVD RECORDER POWER** button.

2 Press a number button to select the desired language.

```
Press   1   for English
Touche  2   pour Français
Pulse   3   para Español
```

NOTE

■ If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use.

■ The TV Guide Setting menu (see page 136) appears after language setup is done. If you don't want to perform the TV Guide Setup now, press the TV GUIDE button on the remote control, and the Guide screen will disappear.

Auto Clock Set

This menu is used to set the current time.
You need to set the time to use timer recording.

1 With the unit in Stop mode, press the **MENU** button.
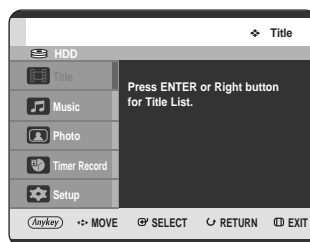
```
                                    ❖ Title
≡ HDD
▦ Title      Press ENTER or Right button
♫ Music      for Title List.
▣ Photo
⏱ Timer Record
⚙ Setup
(Anykey)  ⬩ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
≡ HDD
▦ Title      System                        ►
♫ Music      Language                       ►
             Audio                          ►
▣ Photo      Video                          ►
⏱ Timer Record  Parental Control 🔒          ►
⚙ Setup
        ⬩ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
• System menu will be displayed.

```
                                    ❖ System
≡ HDD
▦ Title      Clock Set                      ►
             Channel Set                    ►
♫ Music      Auto Power Off   : Off         ►
▣ Photo      CM Skip Time     : 15 Sec      ►
             EP Mode Time     : 6 Hour      ►
⏱ Timer Record  Front Display  : Auto Dim    ►
             Chapter Creator  : Off          ►
⚙ Setup
        ⬩ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```

4 Press the ▲▼ buttons to select **Clock Set**, then press the **ENTER** or ► button.

```
                                    ❖ Clock Set
    ≣ HDD
    📖 Title         Auto Clock Set          ►
    🎵 Music         Manual Clock Set        ►
    🖼 Photo
    🕑 Timer Record
    ⚙ Setup
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```
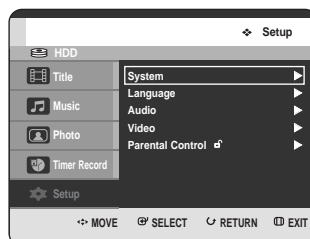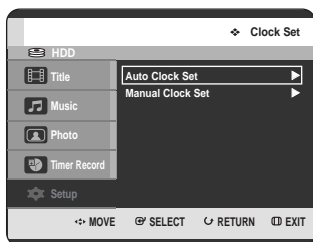
5 Press the ▲▼ buttons to select **Auto Clock Set**, then press the **ENTER** or ► button.

6 Press the ▲▼ buttons to select **Auto Clock Set**, then press the **ENTER** or ► button.

7 Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button.

```
                                    ❖ Auto Clock Set
    ≣ HDD
    📖 Title         Auto Clock Set          Off
    🎵 Music         Clock Data CH         √ On
                     Time Zone        : Automatic  ►
    🖼 Photo         Daylight Saving  : Automatic  ►
    🕑 Timer Record
    ⚙ Setup
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```

✎
NOTE
- If your clock is set to the wrong time zone or daylight saving, you can adjust these settings without turning off the Auto Clock Set function.

8 Select the sub menu(**Clock Data CH**, **Time Zone** or **Daylight Saving**) using the ▲▼ buttons, then press the **ENTER** or ► button.

```
                                    ❖ Auto Clock Set
    ≣ HDD
    📖 Title         Auto Clock Set    : On        ►
    🎵 Music         Clock Data CH     : Automatic  ►
                     Time Zone         : Automatic  ►
    🖼 Photo         Daylight Saving   : Automatic  ►
    🕑 Timer Record
    ⚙ Setup
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```
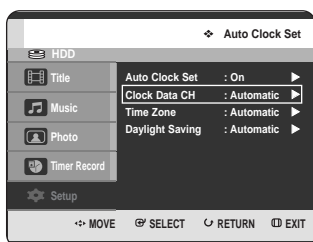
Clock Data CH

Select a channel that carries a time signal using the ▲▼ buttons, then press the **ENTER** button.
· Select **Auto** to set the clock data channel automatically.

```
                                    ❖ Clock Data CH
    ≣ HDD
    📖 Title         Select channel :    ▲
                                        Auto
    🎵 Music                             ▼
    🖼 Photo
    🕑 Timer Record
    ⚙ Setup
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```
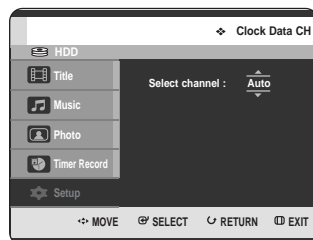
Time Zone

Select the time zone of your area using the ▲▼ buttons, then press the **ENTER** or ► button.
· Select **Automatic** to set the time zone automatically.

```
                                    ❖ Auto Clock Set
    ≣ HDD
    📖 Title         Auto Clock Set    √ Automatic
                     Clock Data CH       Atlantic
    🎵 Music         Time Zone           Eastern
    🖼 Photo         Daylight Saving     Central
                                         Mountain
    🕑 Timer Record                      Pacific
    ⚙ Setup                             Alaska
                                         Hawaii
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```
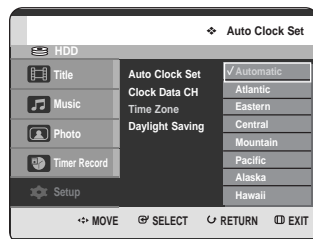
Daylight Saving

Select **Automatic**, **No** or **Yes** using the ▲▼ buttons, then press the **ENTER** or ► button.
· Select **Automatic** to set the daylight saving automatically.

```
                                    ❖ Auto Clock Set
    ≣ HDD
    📖 Title         Auto Clock Set    : On        ►
                     Clock Data CH     : Automatic  ►
    🎵 Music         Time Zone         : Automatic  ►
    🖼 Photo         Daylight Saving   √ Automatic
                                         No
    🕑 Timer Record                      Yes
    ⚙ Setup
         ⟐ MOVE    ☞ SELECT    ↺ RETURN    ⓘ EXIT
```
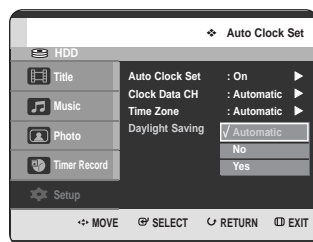
System Setup

Manual Clock Set

If your clock cannot be set automatically, set the clock manually.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
  HDD
  Title      System                        ►
             Language                       ►
  Music      Audio                          ►
             Video                          ►
  Photo      Parental Control               ►
  Timer Record
  Setup
        MOVE    SELECT    RETURN    EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
• System menu will be displayed.

```
                                    ❖ System
  HDD
  Title      Clock Set                      ►
             Channel Set                    ►
  Music      Auto Power Off   : Off         ►
             CM Skip Time     : 15 Sec      ►
  Photo      EP Mode Time     : 6 Hour      ►
             Front Display    : Auto Dim    ►
  Timer Record  Chapter Creator : Off       ►
  Setup
        MOVE    SELECT    RETURN    EXIT
```

4 Press the ▲▼ buttons to select **Clock Set**, then press the **ENTER** or ► button.

```
                                    ❖ Clock Set
  HDD
  Title      Auto Clock Set                 ►
             Manual Clock Set               ►
  Music
  Photo
  Timer Record
  Setup
        MOVE    SELECT    RETURN    EXIT
```
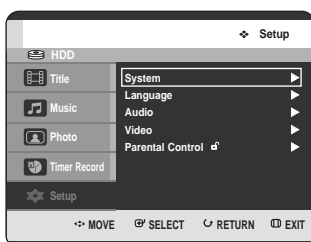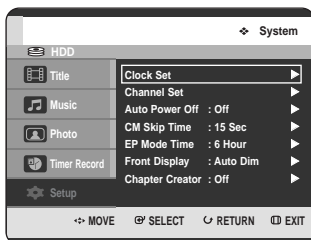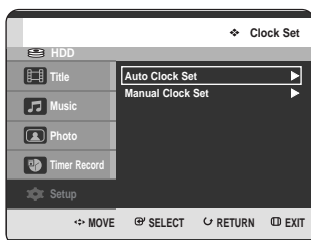
5 Press the ▲▼ buttons to select **Manual Clock Set**, then press the **ENTER** or ► button.

```
                              ❖ Manual Clock Set
  HDD
  Title         Date              Time
  Music     JAN / 01 / 2005  SAT  12 : 00 AM
  Photo
  Timer Record
  Setup
   0-9 NUMBER   SELECT    RETURN    EXIT
```

6 Use the ▲▼◄ ► buttons to select the Current Date and Current Time, and then press the **ENTER** button.
When the current time is stored in memory and then the set is powered off, the current time will appear in the front panel display.

▲▼ : Sets the value
You can set the value using the number buttons.

◄ ►: Moves to items

English **- 33**

Auto Channel Memory

You can set the Antenna/Cable TV channel settings automatically.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                              ❖ Setup
    💾 HDD
    📺 Title      System                    ►
    🎵 Music      Language                  ►
                 Audio                     ►
    📷 Photo      Video                     ►
    📺 Timer Record  Parental Control 🔒        ►
    ⚙ Setup
          ↔ MOVE   ☞ SELECT   ↻ RETURN   ⑪ EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
· System menu will be displayed.

```
                              ❖ System
    💾 HDD
    📺 Title      Clock Set                 ►
    🎵 Music      Channel Set               ►
                 Auto Power Off  : Off       ►
    📷 Photo      CM Skip Time    : 15 Sec    ►
                 EP Mode Time    : 6 Hour    ►
    📺 Timer Record  Front Display   : Auto Dim  ►
                 Chapter Creator : Off       ►
    ⚙ Setup
          ↔ MOVE   ☞ SELECT   ↻ RETURN   ⑪ EXIT
```
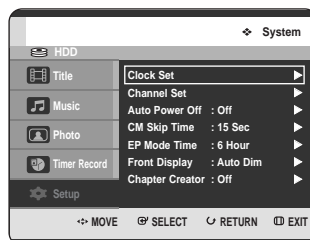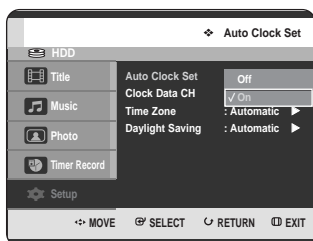
4 Press the ▲▼ buttons to select **Channel Set**, then press the **ENTER** or ► button.

```
                              ❖ Channel Set
    💾 HDD
    📺 Title      Antenna/Cable TV  : Cable TV  ►
    🎵 Music      Auto Channel Memory          ►
                 Channel Add/Delete           ►
    📷 Photo
    📺 Timer Record
    ⚙ Setup
          ↔ MOVE   ☞ SELECT   ↻ RETURN   ⑪ EXIT
```
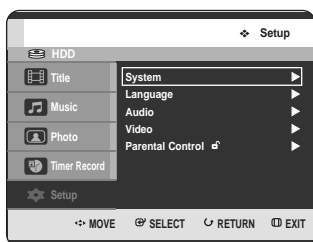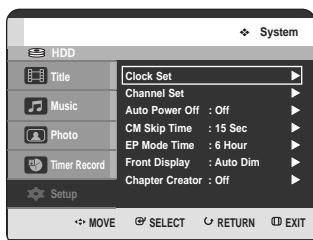
5 Press the ▲▼ buttons to select **Antenna/Cable TV**, then press the **ENTER** or ► button.

```
                              ❖ Channel Set
    💾 HDD
    📺 Title      Antenna/Cable TV   Antenna
    🎵 Music      Auto Channel Memo  √ Cable TV
                 Channel Add/Delete           ►
    📷 Photo
    📺 Timer Record
    ⚙ Setup
          ↔ MOVE   ☞ SELECT   ↻ RETURN   ⑪ EXIT
```

Select the item that matches the antenna connection you selected on pages 18~19.

6 Select **Antenna** or **Cable TV**(depending on the hookup you chose) using the ▲▼ buttons, then press the **ENTER** or ► button.

7 Select **Auto Channel Memory** using the ▲▼ buttons, then press the **ENTER** or ► button. Auto Channel Memory will be performed.

```
                              ❖ Auto Channel Memory
    💾 HDD
    📺 Title      Total channel numbers:    15/125
    🎵 Music      Saved channel :
                 ░░░░░░░░░░░░░░░░░░░░░░░ 11%
    📷 Photo
    📺 Timer Record  Scanning...
                      [    Stop    ]
    ⚙ Setup
                   ☞ SELECT   ↻ RETURN   ⑪ EXIT
```
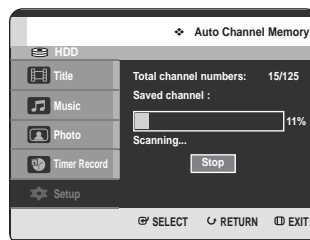
✎
NOTE
■ Press the **RETURN** or **ENTER** button to stop Auto Channel Memory.

System Setup

Manual Channel Set

Manual Channel Set can be used after you have first performed Auto Channel Memory. Use the Manual Channel Setting to delete unnecessary channels after using the Auto Channel Memory.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                        ❖ Setup
  ⊟ HDD
  ▤ Title        System                          ►
                 Language                         ►
  ♫ Music        Audio                            ►
                 Video                            ►
  ▣ Photo        Parental Control 🔓              ►
  🕒 Timer Record
  ⚙ Setup
        ⬩ MOVE    ☞ SELECT    ↻ RETURN    ⫸ EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
  · System menu will be displayed.

```
                                        ❖ System
  ⊟ HDD
  ▤ Title        Clock Set                        ►
                 Channel Set                      ►
  ♫ Music        Auto Power Off   : Off           ►
                 CM Skip Time     : 15 Sec        ►
  ▣ Photo        EP Mode Time     : 6 Hour        ►
                 Front Display    : Auto Dim      ►
  🕒 Timer Record Chapter Creator  : Off           ►
  ⚙ Setup
        ⬩ MOVE    ☞ SELECT    ↻ RETURN    ⫸ EXIT
```
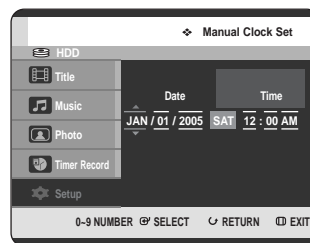
4 Press the ▲▼ buttons to select **Channel Set**, then press the **ENTER** or ► button.

```
                                        ❖ Channel Set
  ⊟ HDD
  ▤ Title        Antenna/Cable TV   : Cable TV    ►
                 Auto Channel Memory              ►
  ♫ Music        Channel Add/Delete               ►
  ▣ Photo
  🕒 Timer Record
  ⚙ Setup
        ⬩ MOVE    ☞ SELECT    ↻ RETURN    ⫸ EXIT
```
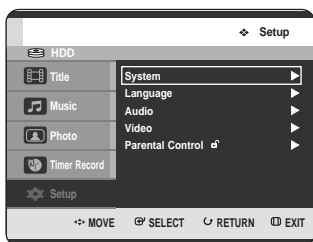
5 Press the ▲▼ buttons to select **Channel Add/Delete**, then press the **ENTER** or ► button.

```
                                        ❖ Channel Add/Delete
  ⊟ HDD
  ▤ Title                              ▲
                 Select channel :      01
  ♫ Music                              ▼
  ▣ Photo
  🕒 Timer Record     Add        Delete
  ⚙ Setup
        ⬩ MOVE    ☞ SELECT    ↻ RETURN    ⫸ EXIT
```
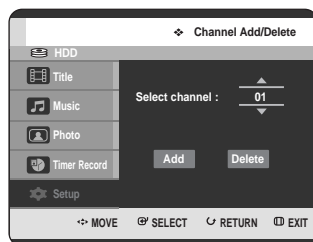
6 Press the ▲▼ or number buttons to select the channels you want to add or delete on the **Select channel** screen. Then, press the **ENTER** button.

```
                                        ❖ Channel Add/Delete
  ⊟ HDD
  ▤ Title                              ▲
                 Select channel :      02
  ♫ Music                              ▼
                 Channel is added.
  ▣ Photo
  🕒 Timer Record     Add        Delete
  ⚙ Setup
        ⬩ MOVE    ☞ SELECT    ↻ RETURN    ⫸ EXIT
```

  · Using ▲▼ buttons for channel selection allows the user to add/delete one channel at a time.
  · Using **CH (⌄ ⌃)** buttons for channel selection jumps to the next channel memorized in Auto Channel Memory.

7 Press the ◄ ► buttons to select **Add** or **Delete**, then press the **ENTER** button.

  · The message "Channel is added." or "Channel is deleted." will be displayed in the center of the screen.
  · Continue to add or delete as many channels as you want to memorize or delete. This can be used to add channels not stored automatically due to weak signal strength.
  · Press the **RETURN** button to return to the previous menu. Press the **MENU** button to exit the menu.

English **- 35**

Auto Power Off Setting

This feature automatically turns off your HDD & DVD RECORDER if you do not press any button for 2 or 6 hours.

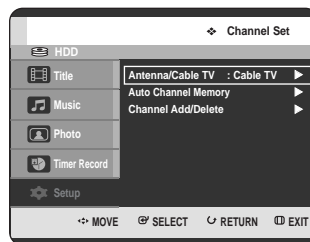**1** With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

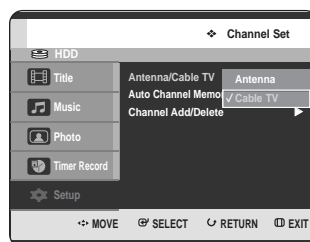|		
		❖ Setup
💾 HDD		
🎬 Title	System	►
🎵 Music	Language	►
	Audio	►
📷 Photo	Video	►
📺 Timer Record	Parental Control 🔒	►
⚙ Setup		
	⊹ MOVE ☞ SELECT ↺ RETURN ⓘ EXIT	

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button. System menu will be displayed.

		❖ System
💾 HDD		
🎬 Title	Clock Set	►
	Channel Set	►
🎵 Music	Auto Power Off : Off	►
📷 Photo	CM Skip Time : 15 Sec	►
	EP Mode Time : 6 Hour	►
📺 Timer Record	Front Display : Auto Dim	►
⚙ Setup	Chapter Creator : Off	►
	⊹ MOVE ☞ SELECT ↺ RETURN ⓘ EXIT	
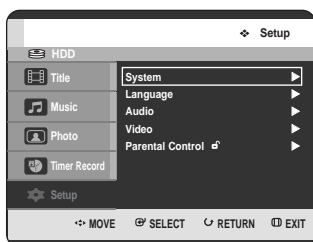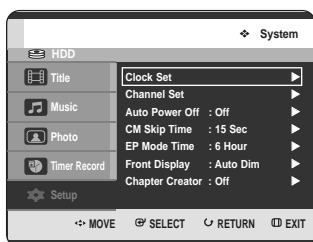
4 Press the ▲▼ buttons to select **Auto Power Off**, then press the **ENTER** or ► button.

		❖ System
💾 HDD		
🎬 Title	Clock Set	►
	Channel Set	►
🎵 Music	Auto Power Off	√ Off
📷 Photo	CM Skip Time	2 Hour
	EP Mode Time	6 Hour
📺 Timer Record	Front Display : Auto Dim	►
⚙ Setup	Chapter Creator : Off	►
	⊹ MOVE ☞ SELECT ↺ RETURN ⓘ EXIT	
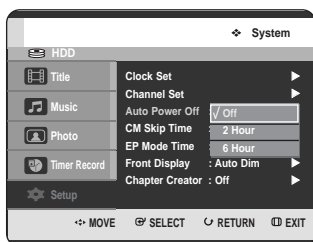
5 Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.

- **Off** : Auto power off is disabled.

- **2 Hour** : HDD & DVD RECORDER will automatically turn off for 2 hours after the last button is pressed.
- **6 Hour** : HDD & DVD RECORDER will automatically turn off for 6 hours after the last button is pressed.

If the turn off time set with the Auto Power off function is reached during playback or recording, the device will operate until the playback or recording is finished.

System Setup

CM Skip Time Setting

When a program recorded on a HDD, a DVD-RAM, a DVD-RW, or a DVD-R is played, the unit can be set to automatically skip a portion of the program corresponding to a CM(commercial) skip time set by the user.
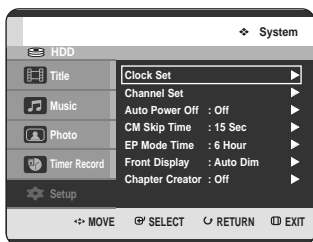
1 With the unit in Stop mode, press the **MENU** button.

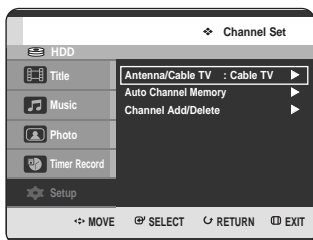**2** Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                              ❖ Setup
  HDD
  Title      System              ►
             Language            ►
  Music      Audio               ►
  Photo      Video               ►
             Parental Control    ►
  Timer Record
  Setup
        ❖ MOVE   ☞ SELECT   ↺ RETURN   ⓘ EXIT
```
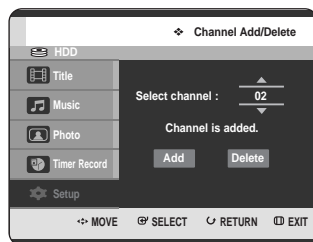
3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
System menu will be displayed.

```
                              ❖ System
  HDD
  Title      Clock Set              ►
             Channel Set            ►
  Music      Auto Power Off  : Off  ►
  Photo      CM Skip Time    : 15 Sec ►
             EP Mode Time    : 6 Hour ►
  Timer Record  Front Display  : Auto Dim ►
             Chapter Creator : Off  ►
  Setup
        ❖ MOVE   ☞ SELECT   ↺ RETURN   ⓘ EXIT
```
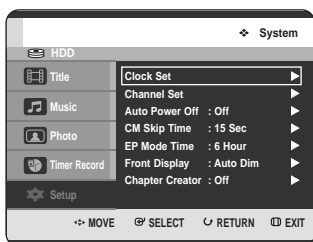
4 Press the ▲▼ buttons to select **CM Skip Time**, then press the **ENTER** or ► button.
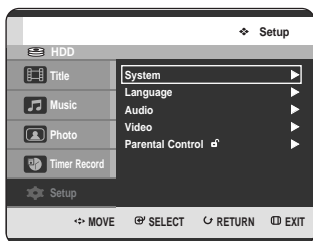
```
                              ❖ System
  HDD
  Title      Clock Set              ►
             Channel Set            ►
  Music      Auto Power Off  : Off  ►
  Photo      CM Skip Time    √ 15 Sec
             EP Mode Time      30 Sec
  Timer Record  Front Display    60 Sec
             Chapter Creator : Off  ►
  Setup
        ❖ MOVE   ☞ SELECT   ↺ RETURN   ⓘ EXIT
```
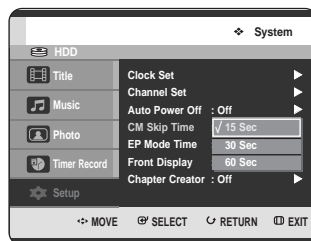
5 Press the ▲▼ buttons to select the desired time interval, then press the **ENTER** or ► button.

6 If you press the **CM SKIP** button during playback, the section corresponding to the set time is skipped, and then the next section is played.

⊗
NOTE
- CM Skip can be performed only during normal playback.

- When the time set is more than a remaining time of a current title: The next title is played from the beginning.

- When the time set is more than a remaining time of a play list, the next scene is played.

- CM Skip does not work in still picture mode.

- When a set time is greater than the remaining time of a scene, last title, or last track that is currently displayed, a prohibition mark appears.

- CM Skip releases Repeat (including Repeat A-B, Chapter, and Title).

- CM Skip may not operate with some DVD-Video discs.

EP Mode Time Setting

You can select one of four recording modes by pressing the **REC MODE** button repeatedly.
EP mode is one of four REC modes (XP, SP, LP, EP).
In EP(Extended Play) mode, you can set recording time to 6 or 8 hours with this setting.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
  ⊟ HDD
  ▤ Title        System               ►
  ♫ Music        Language             ►
               Audio                ►
  ▣ Photo        Video                ►
               Parental Control 🔒   ►
  ⏰ Timer Record
  ✿ Setup
  ⊹ MOVE    ☞ SELECT    ↻ RETURN    ⓘ EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
System menu will be displayed.

```
                                    ❖ System
  ⊟ HDD
  ▤ Title        Clock Set                    ►
               Channel Set                  ►
  ♫ Music        Auto Power Off   : Off        ►
  ▣ Photo        CM Skip Time     : 15 Sec     ►
               EP Mode Time     : 6 Hour      ►
  ⏰ Timer Record Front Display    : Auto Dim    ►
  ✿ Setup        Chapter Creator  : Off         ►

  ⊹ MOVE    ☞ SELECT    ↻ RETURN    ⓘ EXIT
```
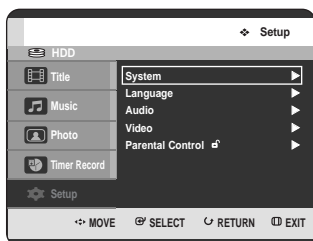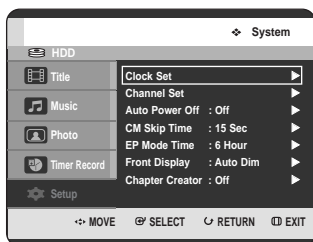
4 Press the ▲▼ buttons to select **EP Mode Time**, then press the **ENTER** or ► button.

```
                                    ❖ System
  ⊟ HDD
  ▤ Title        Clock Set               ►
               Channel Set             ►
  ♫ Music        Auto Power Off  : Off    ►
  ▣ Photo        CM Skip Time    : 15 Sec ►
               EP Mode Time    │√ 6 Hour │
  ⏰ Timer Record Front Display   │ 8 Hour  │
  ✿ Setup        Chapter Creator : Off

  ⊹ MOVE    ☞ SELECT    ↻ RETURN    ⓘ EXIT
```
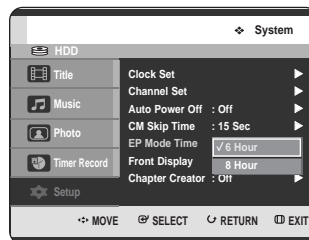
5 Press the ▲▼ buttons to select the desired time, then press the **ENTER** or ► button.

Setting up the Front Display Options

You can adjust the brightness of the unit's front panel display.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
  📼 HDD
  📑 Title      System              ►
              Language            ►
  🎵 Music      Audio              ►
  📷 Photo      Video              ►
              Parental Control 🔒   ►
  📼 Timer Record
  ⚙ Setup
      ◄ MOVE    ☞ SELECT   ↺ RETURN   ⏸ EXIT
```
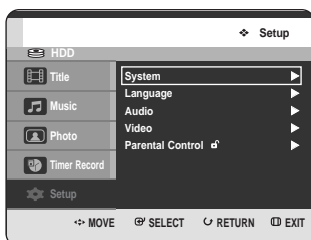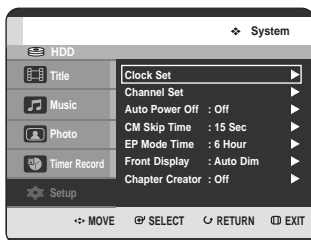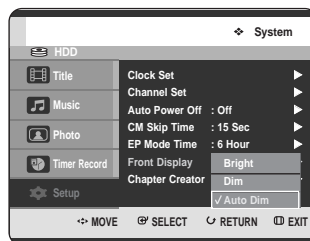
3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
System menu will be displayed.

```
                                    ❖ System
  📼 HDD
  📑 Title      Clock Set                    ►
              Channel Set                  ►
  🎵 Music      Auto Power Off   : Off        ►
  📷 Photo      CM Skip Time     : 15 Sec     ►
              EP Mode Time     : 6 Hour     ►
  📼 Timer Record  Front Display    : Auto Dim    ►
              Chapter Creator  : Off        ►
  ⚙ Setup
      ◄ MOVE    ☞ SELECT   ↺ RETURN   ⏸ EXIT
```

4 Press the ▲▼ buttons to select **Front Display**, then press the **ENTER** or ► button.

```
                                    ❖ System
  📼 HDD
  📑 Title      Clock Set                    ►
              Channel Set                  ►
  🎵 Music      Auto Power Off   : Off        ►
  📷 Photo      CM Skip Time     : 15 Sec     ►
              EP Mode Time     : 6 Hour     ►
  📼 Timer Record  Front Display       Bright
              Chapter Creator     Dim
  ⚙ Setup                      √ Auto Dim
      ◄ MOVE    ☞ SELECT   ↺ RETURN   ⏸ EXIT
```

5 Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.
  • **Bright** : Makes the Front Panel Display bright.
  • **Dim** : Makes the Front Panel Display dim.
  • **Auto Dim** : Makes the Front Panel Display dim automatically when the set is powered off.
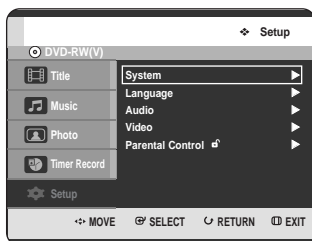
System Setup

English **- 39**

Automatic Chapter Creator

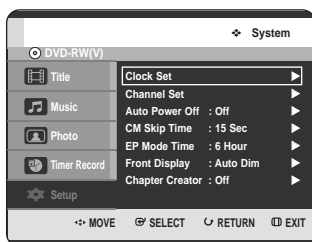The Automatic Chapter Creator function doesn't operate when you record the current TV program on the TV GUIDE screen.

DVD-RW DVD-R

(V mode)

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
  DVD-RW(V)
   Title          System                      ►
   Music          Language                     ►
                  Audio                        ►
   Photo          Video                        ►
                  Parental Control 🔒          ►
   Timer Record
   Setup
        ↔ MOVE    ☞ SELECT   ↺ RETURN   ⑪ EXIT
```

3 Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
System menu will be displayed.

```
                                    ❖ System
  DVD-RW(V)
   Title          Clock Set                    ►
                  Channel Set                  ►
   Music          Auto Power Off  : Off        ►
   Photo          CM Skip Time    : 15 Sec     ►
                  EP Mode Time    : 6 Hour     ►
   Timer Record   Front Display   : Auto Dim   ►
                  Chapter Creator : Off        ►
   Setup
        ↔ MOVE    ☞ SELECT   ↺ RETURN   ⑪ EXIT
```

4 Press the ▲▼ buttons to select **Chapter Creator**, then press the **ENTER** or ► button.

```
                                    ❖ System
  DVD-RW(V)
   Title          Clock Set                    ►
                  Channel Set                  ►
   Music          Auto Power Off  : Off        ►
   Photo          CM Skip Time    : 15 Sec     ►
                  EP Mode Time    : 6 Hour     ►
   Timer Record   Front Display      √ Off
                  Chapter Creator    On
   Setup
        ↔ MOVE    ☞ SELECT   ↺ RETURN   ⑪ EXIT
```
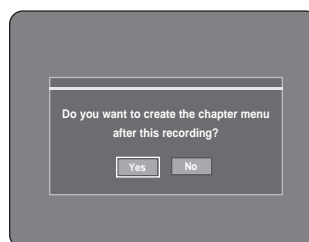
5 Press the ▲▼ buttons to select **On** or **Off**, then press the **ENTER** or ► button.

- **Off:** Select if you do not want use Automatic Chapter Creator.
- **On:** Select this option to use the Automatic Chapter Creator feature.

Press the **MENU** button to exit the menu.

6 Press the **REC** button to start recording. (See page 79 about how to set recording speed) The message "Do you want to create the chapter menu after this recording?" is displayed.
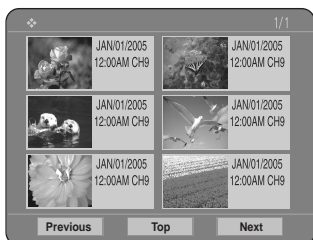
```
  ┌──────────────────────────────────────┐
  │                                      │
  │   Do you want to create the chapter menu │
  │          after this recording?       │
  │                                      │
  │        Yes        No                 │
  │                                      │
  └──────────────────────────────────────┘
```

**7** Press the ◄ ► buttons to select **Yes** and press the **ENTER** button.

- A new chapter is created according to the selected recording mode. A chapter will be about 5 minutes long in XP and SP, and about 15 minutes long in LP and EP mode.

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8 Press the **STOP** button to stop recording.

9 To display the created titles, finalize the disc (See page 118) and then press the **TITLE MENU** button. Title menu will be displayed.

JAN/01/2005 12:00AM CH9	JAN/01/2005 12:00AM CH9
JAN/01/2005 12:00AM CH9	JAN/01/2005 12:00AM CH9
JAN/01/2005 12:00AM CH9	JAN/01/2005 12:00AM CH9

Previous Top Next

10 To display the created chapters, select the desired Title and then press the **DISC MENU** button. The chapter menu for the selected Title will be displayed.

CHAPTER   1/1

Previous Top Next
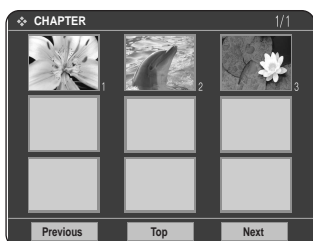
Caution

■ The Automatic Chapter Creator function does not work during Timer Recording or when you turn the power off.
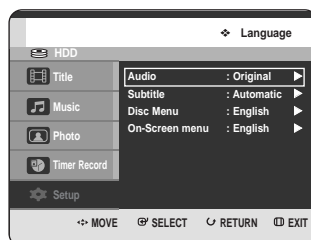
Setting up the Language Options

If you set the On-Screen menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.
If the selected language is not recorded on the disc, the original pre-recorded language is selected.

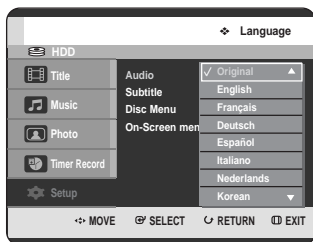**1** With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ▶ button.

	❖ Setup
HDD	
Title	System ▶
Music	Language ▶
	Audio ▶
Photo	Video ▶
Timer Record	Parental Control 🔒 ▶
Setup	

◆ MOVE   ☞ SELECT   ↺ RETURN   ⬠ EXIT

3 Press the ▲▼ buttons to select **Language**, then press the **ENTER** or ▶ button.
Language setup menu will be displayed.

	❖ Language
HDD	
Title	Audio : Original ▶
Music	Subtitle : Automatic ▶
	Disc Menu : English ▶
Photo	On-Screen menu : English ▶
Timer Record	
Setup	

◆ MOVE   ☞ SELECT   ↺ RETURN   ⬠ EXIT

System Setup

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4 Press the ▲▼ buttons to select the desired language option, then press **ENTER** or ▶ button.

```
                                     ❖ Language
 💾 HDD
 📺 Title        Audio          ✓ Original    ▲
                Subtitle         English
 🎵 Music        Disc Menu       Français
                On-Screen men    Deutsch
 📷 Photo                        Español
                                 Italiano
 🕘 Timer Record                 Nederlands
                                 Korean       ▼
 ⚙ Setup
       ⟷ MOVE    ☞ SELECT    ↺ RETURN    ⓓ EXIT
```

- **Audio** : For the disc audio language.
- **Subtitle** : For the disc subtitles.
- **Disc Menu**: For the disc menu contained on the disc
- **On-Screen Menu**: For the on-screen menu of your HDD & DVD RECORDER.

5 Press the ▲▼ buttons to select the desired language, then press the **ENTER** or ▶ button.

NOTE
- Press the **RETURN** or ◀ button to return to the previous menu. Press the **MENU** button to exit the menu.

- The selected language will only appear if it is supported on the disc.

Setting up the Audio Options

You can connect the HDD & DVD RECORDER to an external amp or Home theater.
Allows you to setup the Audio device and sound status depending on the audio system in use.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ▶ button.

```
                                     ❖ Setup
 💾 HDD
 📺 Title        System                        ▶
                Language                       ▶
 🎵 Music        Audio                          ▶
                Video                          ▶
 📷 Photo        Parental Control 🔒            ▶
                Install                        ▶
 🕘 Timer Record
 ⚙ Setup
       ⟷ MOVE    ☞ SELECT    ↺ RETURN    ⓓ EXIT
```
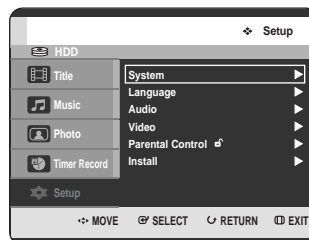
3 Press the ▲▼ buttons to select **Audio**, then press the **ENTER** or ▶ button.
Audio setup menu will be displayed.

```
                                     ❖ Audio
 💾 HDD
 📺 Title        Digital Output      : PCM     ▶
                DTS                 : Off      ▶
 🎵 Music        Dynamic Compression : On       ▶
 📷 Photo
 🕘 Timer Record
 ⚙ Setup
       ⟷ MOVE    ☞ SELECT    ↺ RETURN    ⓓ EXIT
```
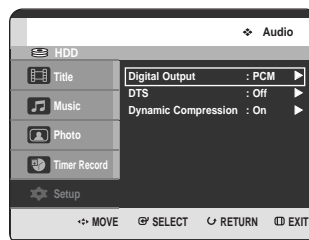
4 Press the ▲▼ buttons to select the desired audio option, then press the **ENTER** or ▶ button.

**5** Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ▶ button.

NOTE
- Press the **RETURN** or ◀ button to return to the previous menu.
Press the **MENU** button to exit the menu.

Digital Output

1. PCM : Select this when your equipment is not Dolby Digital compatible.
2. Bitstream : Outputs Dolby Digital (or MPEG-2) audio as bitstream. Select this when your AV receiver or AV amplifier has a Dolby Digital (or MPEG-2) Decoder.

✎

NOTE

- Be sure to select the correct Digital Output or you will hear no sound or a loud noise.

DTS

1. Off : Doesn't output DTS signal. Select this when your AV receiver or AV amplifier does not have DTS decoder.

2. On : Outputs DTS Bitstream via digital output when you play DTS track. Select this only when your AV receiver (or AV amplifier) have DTS decoder.

✎

NOTE

- When DTS soundtrack is played, sound does not output from AV Audio Output.

Dynamic Compression

This is only active when a Dolby Digital signal is detected.

1. Off : You can enjoy the movie with the standard Dynamic Range.

2. On : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

Setting up the Video display Options

This function allows you to setup the TV screen settings. This function depends on disc type. It may not work for some disc types.

1 With the unit in Stop mode, press the **MENU** button.

2 Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

```
                                    ❖ Setup
   💾 HDD
   📠 Title        System              ►
                  Language            ►
   🎵 Music        Audio               ►
   📷 Photo        Video               ►
                  Parental Control 🔒  ►
   📺 Timer Record
   ⚙ Setup
      ⊹ MOVE    ☞ SELECT   ↺ RETURN   ⓪ EXIT
```
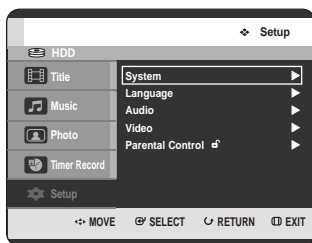
3 Press the ▲▼ buttons to select **Video**, then press the **ENTER** or ► button.
Video setup menu will be displayed.

```
                                    ❖ Video
   💾 HDD
   📠 Title        TV Aspect        : 16:9 Wide  ►
                  Input Level      : Lighter     ►
   🎵 Music        Black Level      : 0 IRE       ►
   📷 Photo        3D Noise Reduction : Off        ►
   📺 Timer Record
   ⚙ Setup
      ⊹ MOVE    ☞ SELECT   ↺ RETURN   ⓪ EXIT
```
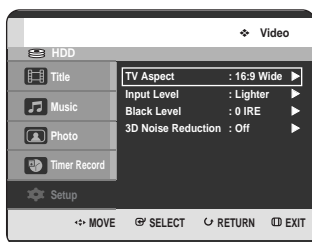
4 Press the ▲▼ buttons to select the desired video option, then press the **ENTER** or ► button.
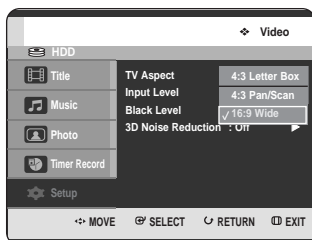
```
                                    ❖ Video
   💾 HDD
   📠 Title        TV Aspect        4:3 Letter Box
                  Input Level      4:3 Pan/Scan
   🎵 Music        Black Level      √ 16:9 Wide
   📷 Photo        3D Noise Reduction : Off        ►
   📺 Timer Record
   ⚙ Setup
      ⊹ MOVE    ☞ SELECT   ↺ RETURN   ⓪ EXIT
```

5 Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.

⊘
NOTE
- Press the **RETURN** or ◄ button to return to the previous menu.
Press the **MENU** button to exit the menu.

TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

1. 4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
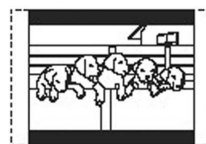
2. 4:3 Pan/Scan : Select this for conventional size TVwhen you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
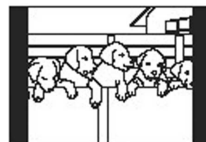
3. 16:9 Wide : You can view the full 16:9 picture on your widescreen TV.
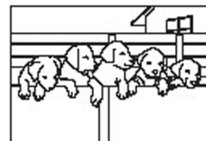
Input Level

Adjusts the level of the input signal.

1. Darker : If you feel the screen is too light and you want to make the sceen darker.
2. Lighter : If you feel the screen is too dark and you want to make the sceen lighter.

Black Level

Adjusts the black level of the screen.

1. 0 IRE : This is the standard NTSC reference black level for consistent brightness/ contrast across all sources.
Select this when you want a darker screen.
2. 7.5 IRE : This will enhance the black level for increased brightness/contrast when viewing DVDs. Select this when you want a lighter screen.
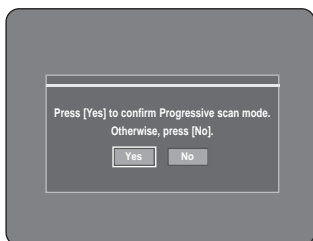
3D Noise Reduction (motion adaptive noise reduction)

1. Off : Normal
2. On : Provides a clear picture through noise reduction (for recording).

Setting up the Progressive scan

If your TV supports Progressive Scan, press the **P.SCAN** button on the front of the HDD & DVD RECORDER. To view 'Progressive scan mode', first connect the component cable.
(See page 22)
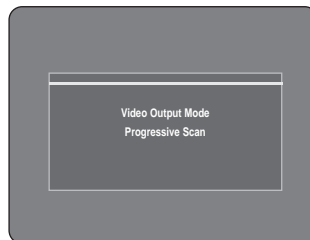Be sure the Component cables are connected properly.

1 With the unit in Stop mode, press the **P.SCAN** button on the front of the HDD & DVD RECORDER. The message "Press [Yes] to confirm Progressive scan mode. Otherwise, press [No]." will appear. Press the ◄ ► buttons to select **Yes**, and then press the **ENTER** button.

> Press [Yes] to confirm Progressive scan mode.
> Otherwise, press [No].
> Yes   No

2 The message "Please, set your TV to Progressive input. To deactivate, press [STOP] key." will appear. Press the **ENTER** button.

> Please, set your TV to Progressive input,
> To deactivate, press [STOP] key.
> OK

3 The message "Video Output Mode Progressive Scan" will appear. The video will now be Progressive Scan.

> Video Output Mode
> Progressive Scan

✎
NOTE

- If the **P.SCAN** button on the HDD & DVD RECORDER's front panel is pressed during playback, the message "This function is possible only on stop mode" appears on the screen.

- Progressive setting is only available when the HDD & DVD RECORDER is in stop mode.

System Setup

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Canceling the Progressive scan

1 With the unit in Stop mode, press the **P.SCAN** button on the front of the HDD & DVD RECORDER. The message "Press [Yes] to confirm Interlace scan mode. Otherwise, press [No]." will appear. Press the ◀ ▶ buttons to select **Yes**, and then press the **ENTER** button.

```
Press [Yes] to confirm Interlace scan mode.
         Otherwise, press [No].
      Yes       No
```

2 The message "Please, set your TV to Interlace input. To deactivate, press [STOP] key." will appear. Press the **ENTER** button.

```
Please, set your TV to Interlace input,
   To deactivate, press [STOP] key.
             OK
```
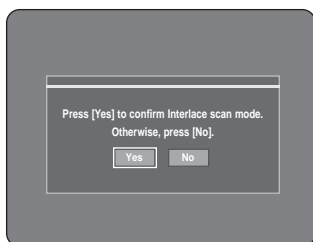
3 The message "Video Output Mode Interlace Scan" will appear.
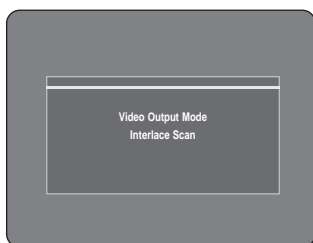
```
       Video Output Mode
         Interlace Scan
```

System Setup

Setting up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1 With the unit in Stop mode, press the **MENU** button.

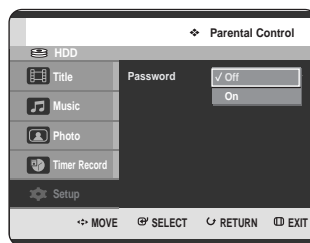**2** Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ▶ button.

```
                              ❖ Setup
 HDD
   Title        System               ▶
                Language             ▶
   Music        Audio                ▶
                Video                ▶
   Photo        Parental Control ⌐    ▶
   Timer Record
   Setup
              MOVE   SELECT   RETURN   EXIT
```
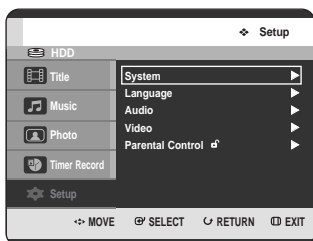
3 Press the ▲▼ buttons to select **Parental Control**, then press the **ENTER** or ▶ button.
The "Create the password" message will be displayed

```
                              ❖ Parental Control
 HDD
   Title
                Create the password
   Music
   Photo
   Timer Record
   Setup
            0-9 NUMBER   SELECT   RETURN   EXIT
```
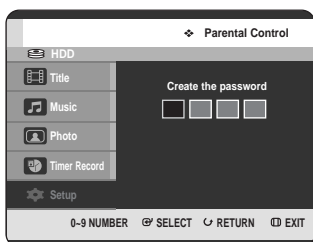
4 Enter the 4-digit password using the number buttons on the remote control.
The "Confirm the password" message will be displayed. Enter your password again.

```
                              ❖ Parental Control
 HDD
   Title
                Confirm the password
   Music
   Photo
   Timer Record
   Setup
            0-9 NUMBER   SELECT   RETURN   EXIT
```
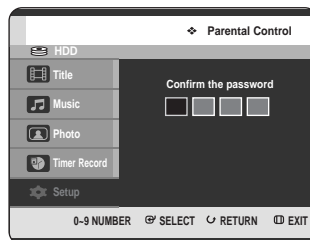
5 Press the **ENTER** or ▶ button to select Password.

```
                              ❖ Parental Control
 HDD
   Title        Password        ✓ Off
                                  On
   Music
   Photo
   Timer Record
   Setup
              MOVE   SELECT   RETURN   EXIT
```

6 Press the ▲▼ buttons to select **On** or **Off**, then press the **ENTER** or ▶ button.

NOTE
- Press the **RETURN** or ◀ button to return to the previous menu.
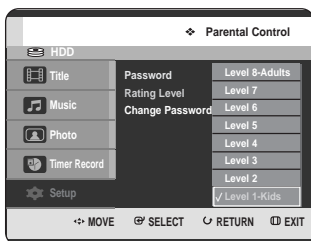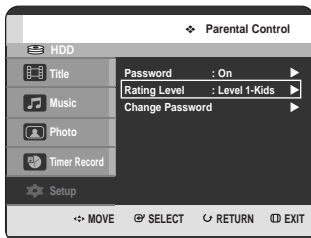 Press the **MENU** button to exit the menu.

If you forgot your password

1 Remove the disc.

2 Press and hold the **PLAY (⊙)** and **STOP (⊙)** buttons simultaneously on the front panel for 5 seconds or more.
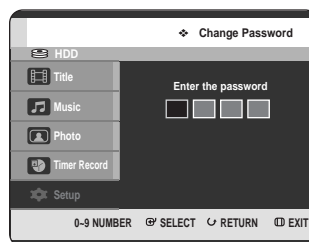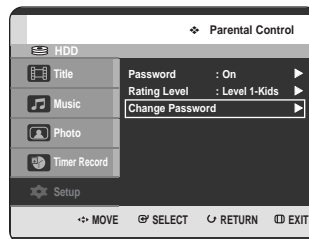
Setting the Rating Level

1 Press the ▲▼ buttons to select **Rating Level**, then press the **ENTER** or ▶ button.
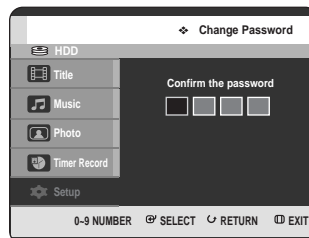
```
                    ❖ Parental Control
 🖴 HDD
 📺 Title       Password      : On          ▶
               Rating Level  : Level 1-Kids ▶
 🎵 Music       Change Password            ▶
 📷 Photo
 📺 Timer Record
 ⚙ Setup
      ⬩ MOVE    ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

```
                    ❖ Parental Control
 🖴 HDD
 📺 Title       Password        Level 8-Adults
               Rating Level     Level 7
 🎵 Music       Change Password  Level 6
                                Level 5
 📷 Photo                        Level 4
                                Level 3
 📺 Timer Record                 Level 2
                              √ Level 1-Kids
 ⚙ Setup
      ⬩ MOVE    ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

2 Press the ▲▼ buttons to select the rating level you want, then press the **ENTER** or ▶ button.

3 When you operate your HDD & DVD RECORDER for the first time, the "Create the Password" message will be displayed.
For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the program is intended for adult use only.

Changing the Password

1 Press the ▲▼ buttons to select **Change Password**, then press the **ENTER** or ▶ button.

```
                    ❖ Parental Control
 🖴 HDD
 📺 Title       Password      : On          ▶
               Rating Level  : Level 1-Kids ▶
 🎵 Music       Change Password            ▶
 📷 Photo
 📺 Timer Record
 ⚙ Setup
      ⬩ MOVE    ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

```
                    ❖ Change Password
 🖴 HDD
 📺 Title
               Enter the password
 🎵 Music       ▢ ▢ ▢ ▢
 📷 Photo
 📺 Timer Record
 ⚙ Setup
      0-9 NUMBER  ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

2 Enter the 4-digit password using the number buttons on the remote control.
The "Confirm the password" message will be displayed.

```
                    ❖ Change Password
 🖴 HDD
 📺 Title
               Confirm the password
 🎵 Music       ▢ ▢ ▢ ▢
 📷 Photo
 📺 Timer Record
 ⚙ Setup
      0-9 NUMBER  ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

3 Enter your password again using the number buttons on the remote control.

✎ ■ See page 47 if you forgot your password.

NOTE

System Setup

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Playback

This section introduces basic functions of playback and playback by disc type.

DOLBY DIGITAL	**dts**	**DIGITAL SOUND**
Dolby Digital	DTS	Digital Audio
STEREO	**NTSC**	**MP3 DIGITAL DISC PLAYBACK**
Stereo	NTSC broadcast system in U.S.A, Canada, Korea, Japan,etc.	MP3

Before Playing

Read the following information before playing a disc.

Region code (DVD-Video only)

Both the HDD & DVD RECORDER and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this HDD & DVD RECORDER is described on the rear panel of the HDD & DVD RECORDER.

Disc types that can be played

Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing Time
DVD-VIDEO	**DVD VIDEO**	AUDIO + VIDEO	Single sided(5")	240
			Double sided(5")	480
			Single sided(3.5")	80
			Double sided(3.5")	160
AUDIO-CD	**COMPACT disc DIGITAL AUDIO**	AUDIO	Single sided(5")	74
			Single sided(3.5")	20
DVD-RAM	**DVD RAM**	AUDIO + VIDEO	Single-sided 5" (4.7GB)	1 (XP: Excellent Quality)
				2 (SP: Standard Quality)
				4 (LP: Long Playback)
				6 or 8 (EP:Extended)
			Double-sided 5" (9.4GB)	2 (XP: Excellent Quality)
				4 (SP: Standard Quality)
				8 (LP: Long Playback)
				12 or 16 (EP:Extended)
DVD-RW	**DVD RW**	AUDIO + VIDEO	5" (4.7GB)	1 (XP: Excellent Quality)
				2 (SP: Standard Quality)
				4 (LP: Long Playback)
				6 or 8 (EP:Extended)
DVD-R	**DVD R**	AUDIO + VIDEO	5" (4.7GB)	1 (XP: Excellent Quality)
				2 (SP: Standard Quality)
				4 (LP: Long Playback)
				6 or 8 (EP:Extended)
CD-RW/-R		JPEG MP3	-	-
HDD	**HDD**	AUDIO + VIDEO		Approx. 29 (XP: Excellent Quality)
				Approx. 55 (SP: Standard Quality)
				Approx. 106 (LP: Long Playback)
				Approx.157 or Approx. 208 (EP:Extended)

Discs that cannot be played

• DVD-Video with a region number other than "1" or "ALL"
• 12cm 2.6 GB and 5.2 GB DVD-RAM
• 3.9 GB DVD-R Disc for Authoring.
• DVD-RAM/-RW(VR mode) not recorded following the Video Recording Standard
• Unfinalized DVD-R,unfinalized DVD-RW(V mode) recorded on other equipment.
• PAL Disc
• DVD-ROM/DVD+RW/PD/MV-Disc/DiVX Video Disc, etc.
• CVD/SVCD/CD-ROM/CDV/CD-G/CD-I/VCD

Playback

- This HDD & DVD RECORDER can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
- Playback and/or recording may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched, finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- DVD-RAM/-RW/-R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
- Discs with PAL programs recorded on them cannot be recorded using this product.

Playing a Disc

1 Press the **OPEN/CLOSE** button.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the **OPEN/CLOSE** button to close the disc tray.
- Your HDD & DVD RECORDER closes the disc tray and plays the disc automatically.

- The HDD & DVD RECORDER does not play discs automatically after the initial power on.
- When the HDD & DVD RECORDER is powered on and a disc is in the tray, the unit will be activated and wait in stop status.
- Press the **PLAY(⊙)** button to start playback.
- If you insert an MP3 Disc, your HDD & DVD RECORDER will display the file list on the screen and start playing.
- If you insert a JPEG Disc, folders and files are displayed in the thumbnail picture.
- If you want the unit to play automatically when it is powered on with a disc in the unit, power on with the **PLAY(⊙)** button.

4 Press the **STOP(⊙)** button to stop playback.

✎
NOTE
- When you stop playing back a disc, the HDD & DVD RECORDER remembers where you stopped, so when you press **PLAY(⊙)** button again, it will pick up where you left off. (Unless the disc is removed or the HDD & DVD RECORDER is unplugged, or if you press the **STOP(⊙)** button twice.).

!
Caution
- Do not move your HDD & DVD RECORDER while playing, as this may cause damage to the disc.
- Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.
- Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
- Do not place foreign materials on or in the disc tray.
- Some functions may perform differently or be disabled depending on the disc type. If this occurs, refer to the instructions written on the disc case.
- Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the HDD & DVD RECORDER.

Using the Disc Menu & Title Menu

Some type of discs contain a dedicated menu system that allows you to select special functions for title, chapter, audio track, subtitle, film preview, information on characters, etc.

For DVD-VIDEO discs

1 Press the **DISC MENU** button to enter the disc menu of the disc.

· Move to the setup menu related to playback operation.
· You can select audio language and subtitle etc. provided by the disc.

2 Press the **TITLE MENU** button to move to the disc's title menu of the disc.
· Press this button if the disc contains more than one title. Some discs may not support the title menu functionality.

For HDD/DVD-RAM/-RW/-R Disc

1 Press the **TITLE LIST** button to display title list.

✎
NOTE
■ Title List : Title List is a list of previously recorded programs. If a title is deleted, that title cannot be played again.

■ Play List : This refers to a list of user-selected titles. When one playlist is played, only the scene selected by the user will play and then stop. Even if the playlist is deleted, the original recording will remain. (VR mode only)

Using the Search & Skip Functions

Searching through a Chapter or Track

1 During play, press the **SEARCH (◄◄ ►►)** buttons on the remote control.

HDD/ DVD-VIDEO/ DVD-RAM/-RW/-R	►► Fast X 2 → ►► Fast X 4 → ►► Fast X 8 → ►► Fast X 16 → ►► Fast X 32 → ►► Fast X 128
AUDIO CD (CD-DA)	►► X 2 → ►► X 4 → ►► X 8

· You can scan the program in reverse. To return to normal speed playback, press the **PLAY (►)** button.

· When you press and hold the **SEARCH (◄◄ ►►)** buttons, playback is done at the default speed of X4. If you release the **SEARCH (◄◄ ►►)** buttons, playback is performed at a normal speed.

· The speed marked in this function may be different from the actual playback speed.

✎
NOTE
■ No sound is heard during Scan(Search) mode, except with CDs (CD-DA).

Skipping Chapters, Tracks or Markers

During play, you can search quickly through a chapter or track.

1 During play, press the **SKIP (⏮ ⏭)** buttons on the remote control.

- **· If you press the SKIP (⏮) button,**
  it moves to the beginning of the chapter or track or marker(HDD/DVD-RAM/-RW(VR mode)).
  Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or track or marker(HDD/DVD-RAM/-RW(VR mode)).
- **· If you press the SKIP (⏭) button,**
  it moves to the next chapter, track or marker (HDD/DVD-RAM/-RW(VR mode)).

Slow Motion Play/ Step Motion Play

Slow Motion Play

In pause or step mode, press the **SEARCH (⏪ ⏩)** buttons on the remote control.

- **· If you press the SEARCH (⏩)button,**
  I▶ Slow 1/8 → I▶ Slow 1/4 → I▶ Slow 1/2
- **· If you press the SEARCH (⏪) button,**
  ◀I Slow 1/8 → ◀I Slow 1/4 → ◀I Slow 1/2
- **· To return to normal speed playback, press the PLAY (▶) button.**

Press and hold the **SEARCH (⏪ ⏩)** buttons during pause, the disc will play slowly at 1/4 speed. If the button is released, the pause operation will resume.

<div>
✎
NOTE

■ The speed marked in this function may be different from the actual playback speed.
</div>

<div style="writing-mode: vertical">Playback</div>

Step Motion Play

Press the **STEP(◁▯ ▯▷)** buttons on the remote control in the pause mode.

· Each time the button is pressed, a new frame will appear.

When the **STEP(◁▯)** button is pressed, the previous frame will be activated.

When the **STEP(▯▷)** button is pressed, the next frame will be activated.

· To return to normal speed playback, press the **PLAY (▶)** button.

About ANYKEY

The ANYKEY function allows you to easily search for a desired scene by accessing title, chapter, track, time. You can also change the subtitle and audio settings and set some features including Marker, Angle, Zoom, Repeat, Select Media, Disc Manager.

Moving to a scene directly using the ANYKEY

· If you want to move to a title, a chapter or a track to find a desired scene.

1 Press the **ANYKEY** button during playback.
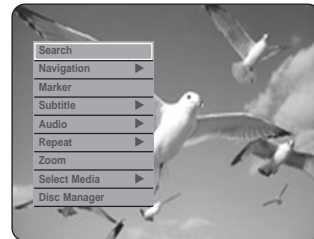
2 Press the ▲▼ buttons to select **Search**, then press the **ENTER** or ▶ button.

3 Press the ▲▼ buttons to select **Title**, **Chapter** or **Track**.

4 Press the ◄► buttons or number buttons to select the desired scene, then press the **ENTER** button.

• If you want to move to a desired time the following instructions will help you find a scene.

1 Press the **ANYKEY** button during playback.
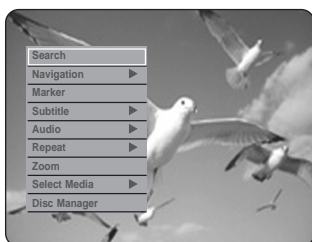
> **Search**
> **Navigation** ►
> **Marker**
> **Subtitle** ►
> **Audio** ►
> **Repeat** ►
> **Zoom**
> **Select Media** ►
> **Disc Manager**

2 Press the ▲▼ buttons to select **Search**, then press the **ENTER** or ► button.

> **HDD**
> **Title** 1/10
> **Time** 00:01:45
> ⬍ **MOVE** ◄► **CHANGE**

> **DVD-Video**
> **Title** 1/10
> **Chapter** 1/40
> **Time** 00:01:45
> ⬍ **MOVE** ◄► **CHANGE**

3 Press the ▲▼ buttons to select **Time.**

4 Enter the time in the sequence of hours, minutes, and seconds using the number buttons, then press the **ENTER** button.

Playback

Playing the Title List

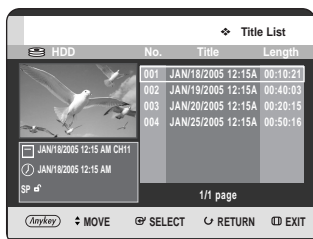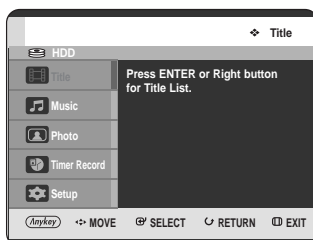Follow these instructions to play back a scene from the Title List.

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
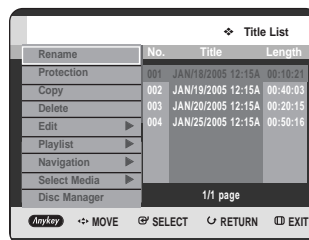The Title List screen is displayed.
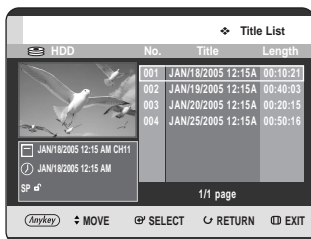
Using the MENU button.

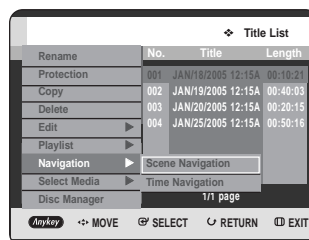• With the unit in Stop mode/Playback mode, press the **MENU** button.
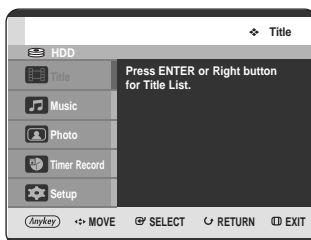
• Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

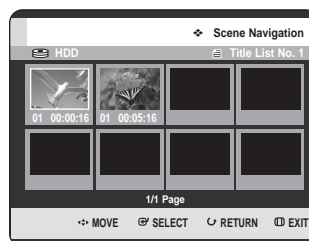**2** Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **ENTER** or **PLAY (⊙)** button.
The selected entry (title) will be played back.

- About INFO button -

During playback, if you press the **INFO** button once during playback, the system information screen appears.: Displays Active Status, Background Status, and Main Screen information.
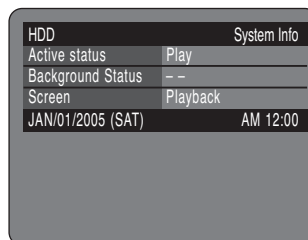
Pressing the **INFO** button twice, Disc information screen appears.: Displays Total numbers of Titles and Playlists, Recordable Time(Title), Available Space(Music/Photo).
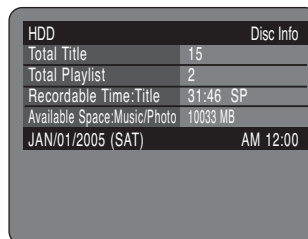
Pressing the **INFO** button three times, Current playback information screen appears.: Displays information of Playback Name, Title, Created Time, Length, Playing Time, Audio, and if the disc protection is activated.
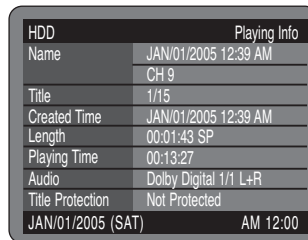
3 To stop title play, press the **STOP(⊙)**button.
To return the title list screen, press the **TITLE LIST** button.

English **- 55**

Navigation Menu

█ Scene Navigation

If there is a title composed of markers (see page 59), you can search the desired scene using the Scene Navigation.

(VR mode)

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.

```
                              ❖ Title List
 HDD           No.   Title              Length
              001  JAN/18/2005 12:15A 00:10:21
              002  JAN/19/2005 12:15A 00:40:03
              003  JAN/20/2005 12:15A 00:20:15
              004  JAN/25/2005 12:15A 00:50:16
 JAN/18/2005 12:15 AM CH11
 JAN/18/2005 12:15 AM
 SP                            1/1 page
 Anykey   ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⫼ EXIT
```
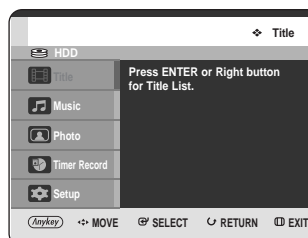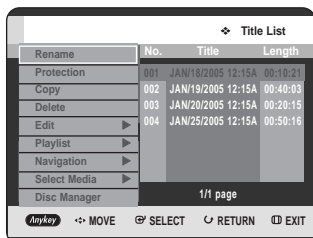
Using the MENU button.

• With the unit in Stop mode/Playback mode, press the **MENU** button.

```
                              ❖ Title
 HDD
 Title    Press ENTER or Right button
          for Title List.
 Music
 Photo
 Timer Record
 Setup
 Anykey   ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⫼ EXIT
```
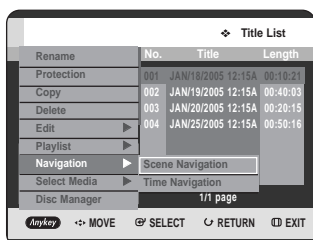
• Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

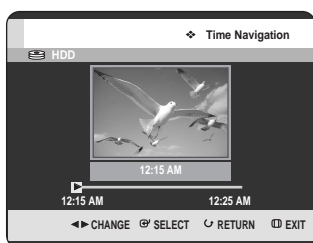**2** Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **ANYKEY** button.

```
                              ❖ Title List
 Rename        No.   Title              Length
 Protection   001  JAN/18/2005 12:15A 00:10:21
 Copy         002  JAN/19/2005 12:15A 00:40:03
 Delete       003  JAN/20/2005 12:15A 00:20:15
 Edit        ▶ 004  JAN/25/2005 12:15A 00:50:16
 Playlist    ▶
 Navigation  ▶
 Select Media ▶
 Disc Manager                  1/1 page
 Anykey   ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⫼ EXIT
```

3 Press the ▲▼ buttons to select **Navigation**, then press the **ENTER** or ▶ button.

```
                              ❖ Title List
 Rename        No.   Title              Length
 Protection   001  JAN/18/2005 12:15A 00:10:21
 Copy         002  JAN/19/2005 12:15A 00:40:03
 Delete       003  JAN/20/2005 12:15A 00:20:15
 Edit        ▶ 004  JAN/25/2005 12:15A 00:50:16
 Playlist    ▶
 Navigation  ▶ Scene Navigation
 Select Media ▶ Time Navigation
 Disc Manager                  1/1 page
 Anykey   ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⫼ EXIT
```

4 Press the ▲▼ buttons to select **Scene Navigation**, then press the **ENTER** or ▶ button.

```
                          ❖ Scene Navigation
 HDD                       ▤ Title List No. 1

 01 00:00:16  01 00:05:16



                        1/1 Page
       ⬌ MOVE   ☞ SELECT   ↺ RETURN   ⫼ EXIT
```

5 Press the ▲▼ ◀▶ buttons to select desired scene, then press the **ENTER** or **PLAY (⊙)** button.

Playback

Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

```
Search
Navigation          ▶
Marker
Subtitle            ▶
Audio               ▶
Repeat              ▶
Zoom
Select Media        ▶
Disc Manager
```

2 Press the ▲▼ buttons to select **Navigation**, then press the **ENTER** or ▶ button.

```
Search
Navigation          ▶    Scene Navigation
Marker                   Time Navigation
Subtitle            ▶
Audio               ▶
Repeat              ▶
Zoom
Select Media        ▶
Disc Manager
```

3 Press the ▲▼ buttons to select **Scene Navigation**, then press the **ENTER** or ▶ button.

```
                    ❖ Scene Navigation
🖴 HDD                    📄 Title List No. 1

01 00:00:16   01 00:05:16

                    1/1 Page
      ↔ MOVE   ☞ SELECT   ↻ RETURN   ⓘ EXIT
```

4 Press the ▲▼ ◀▶ buttons to select desired scene, then press the **ENTER** or **PLAY (⏺)** button.

NOTE

■ Scene Navigation will not operate if a selected title does not have Markers.

▌ Time Navigation

(VR mode)

Using this function, you can search scene minute-by-minute from the recorded title list.

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.

```
                              ❖ Title List
🖴 HDD       No.      Title              Length
            001   JAN/18/2005 12:15A   00:10:21
            002   JAN/19/2005 12:15A   00:40:03
            003   JAN/20/2005 12:15A   00:20:15
            004   JAN/25/2005 12:15A   00:50:16
 ▭ JAN/18/2005 12:15 AM CH11
 ⏱ JAN/18/2005 12:15 AM
 SP 🔒                          1/1 page
 (Anykey)  ↕ MOVE  ☞ SELECT  ↻ RETURN  ⓘ EXIT
```

Using the MENU button.

• With the unit in Stop mode/Playback mode, press the **MENU** button.

```
                              ❖ Title
🖴 HDD
📺 Title        Press ENTER or Right button
                for Title List.
🎵 Music
📷 Photo
⏲ Timer Record
⚙ Setup
 (Anykey)  ↔ MOVE  ☞ SELECT  ↻ RETURN  ⓘ EXIT
```

• Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

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2 Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **ANYKEY** button.

```
                              ❖  Title List
Rename           No.    Title           Length
Protection       001   JAN/18/2005 12:15A  00:10:21
Copy             002   JAN/19/2005 12:15A  00:40:03
Delete           003   JAN/20/2005 12:15A  00:20:15
Edit        ▶    004   JAN/25/2005 12:15A  00:50:16
Playlist    ▶
Navigation  ▶
Select Media ▶
Disc Manager            1/1 page
 Anykey   ⟷ MOVE   ☞ SELECT   ↻ RETURN   ▯ EXIT
```

3 Press the ▲▼ buttons to select **Navigation**, then press the **ENTER** or ▶ button.

```
                              ❖  Title List
Rename           No.    Title           Length
Protection       001   JAN/18/2005 12:15A  00:10:21
Copy             002   JAN/19/2005 12:15A  00:40:03
Delete           003   JAN/20/2005 12:15A  00:20:15
Edit        ▶    004   JAN/25/2005 12:15A  00:50:16
Playlist    ▶
Navigation  ▶   Scene Navigation
Select Media ▶  Time Navigation
Disc Manager            1/1 page
 Anykey   ⟷ MOVE   ☞ SELECT   ↻ RETURN   ▯ EXIT
```

4 Press the ▲▼ buttons to select **Time Navigation**, then press the **ENTER** or ▶ button.

```
                              ❖  Time Navigation
  HDD




              12:15 AM

 12:15 AM              12:25 AM
 ◀▶ CHANGE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

5 Press the ◀▶ buttons to skip one minute at a time and search the desired scene, then press the **ENTER** or **PLAY (⊙)** button.

Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

```
 Search
 Navigation    ▶
 Marker
 Subtitle      ▶
 Audio         ▶
 Repeat        ▶
 Zoom
 Select Media  ▶
 Disc Manager
```

2 Press the ▲▼ buttons to select **Navigation**, then press the **ENTER** or ▶ button.

```
 Search
 Navigation    ▶  Scene Navigation
 Marker            Time Navigation
 Subtitle      ▶
 Audio         ▶
 Repeat        ▶
 Zoom
 Select Media  ▶
 Disc Manager
```

3 Press the ▲▼ buttons to select **Time Navigation**, then press the **ENTER** or ▶ button.

```
                              ❖  Time Navigation
  HDD




              12:15 AM

 12:15 AM              12:25 AM
 ◀▶ CHANGE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

4 Press the ◀▶ buttons to skip one minute at a time and search the desired scene, then press the **ENTER** or **PLAY (⊙)** button.

✎
NOTE
- Cursor does not move if the selected recorded title is shorter than 1 minute.
- The Navigation function may not work on a disc that has not been recorded by this device.
- An edited title may not display the exact search time.

Playback

Using Markers

HDD DVD-RAM DVD-RW
(VR mode)

Using the MARKER button
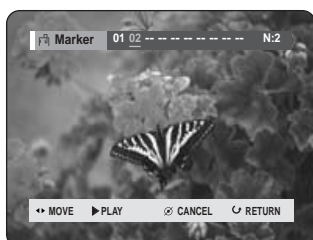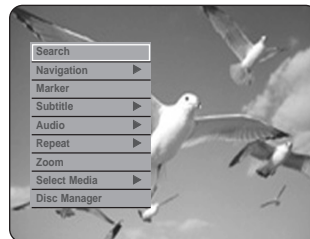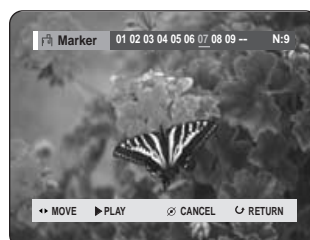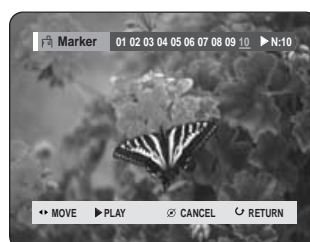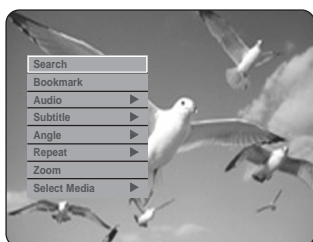
1 Press the **MARKER** button during playback.
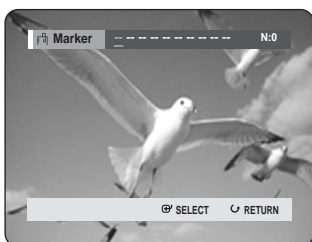
Using the ANYKEY button.
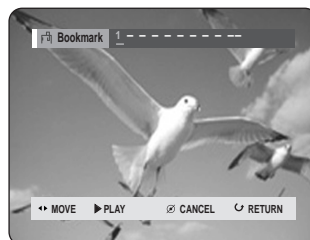• Press the **ANYKEY** button during playback.

• Press the ▲▼ buttons to select **Marker**,
then press the **ENTER** or ▶ button.

2 Press the **ENTER** button when the desired scene
appears.
• The number **01** is displayed and the scene is memorized.
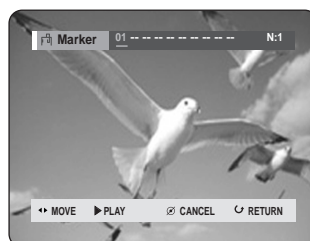
3 Press the ◄ ► buttons to move to the next position.

4 Press the **ENTER** button again when the desired
scene appears.
• The number **02** is displayed and the scene is
memorized.
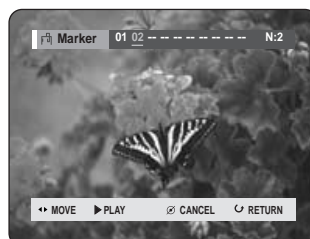
• HDD, DVD-RAM or DVD-RW (VR Mode) discs have
the Marker function instead of the Bookmark function.
The Marker function allows you to mark up to 99
scenes. Since the scenes may be displayed as many
different pages, numbering is necessary. If a disc in
use is encoded with Disc Protection, Markers cannot
be set or deleted, only playback is available.

Playing back a marker

Using the MARKER button
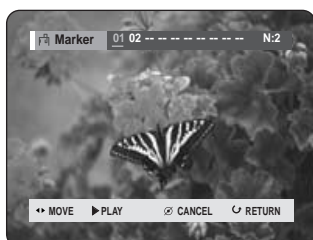
1 Press the **MARKER** button during playback.

```
Marker    01 02 -- -- -- -- -- -- -- --    N:2
```
```
MOVE    PLAY    CANCEL    RETURN
```

Using the ANYKEY button.
• Press the **ANYKEY** button during playback.

```
Search
Navigation        ►
Marker
Subtitle          ►
Audio             ►
Repeat            ►
Zoom
Select Media      ►
Disc Manager
```

• Press the ▲▼ buttons to select **Marker**, then press the **ENTER** or ► button.
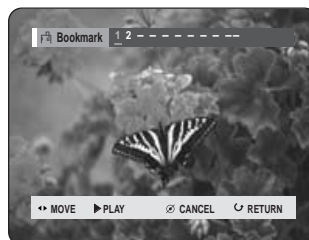
2 Press the ◄ ► buttons to select a marked scene.

```
Marker    01 02 -- -- -- -- -- -- -- --    N:2
```
```
MOVE    PLAY    CANCEL    RETURN
```

3 Press the **ENTER** or **PLAY ( )** button to start playing from the selected scene.

• If you press the **SKIP ( )** button, it moves to the beginning of the marker. Pressing the button once again within 3 seconds returns to the beginning of the previous marker.

• If you press the **SKIP ( )** button, it moves to the next marker.

Clearing a marker

Using the MARKER button
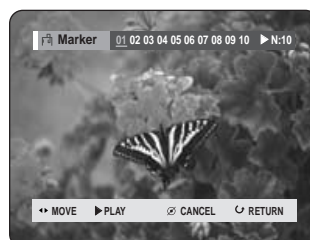
1 Press the **MARKER** button during playback.

```
Marker    01 02 03 04 05 06 07 08 09 10  ►N:10
```
```
MOVE    PLAY    CANCEL    RETURN
```

Using the ANYKEY button.
• Press the **ANYKEY** button during playback.

```
Search
Navigation        ►
Marker
Subtitle          ►
Audio             ►
Repeat            ►
Zoom
Select Media      ►
Disc Manager
```

• Press the ▲▼ buttons to select **Marker**, then press the **ENTER** or ► button.

**2** Press the ◄ ► buttons to select a marked scene. Press the **CANCEL** button to delete the selected mark.

```
Marker    01 02 03 04 05 06 07 08 09 10  ►N:10
```
```
MOVE    PLAY    CANCEL    RETURN
```

```
Marker    01 02 03 04 05 06 07 08 09 --    N:9
```
```
MOVE    PLAY    CANCEL    RETURN
```

■ When a marker is cleared while HDD/DVD-RAM/-RW (VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

Using the Bookmarks
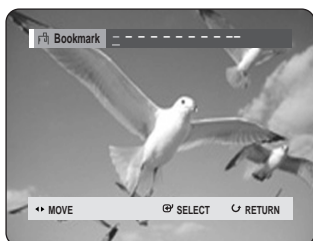
DVD-VIDEO DVD-RW DVD-R

(V-mode)

Using the MARKER button

1 Press the **MARKER** button during playback.

Bookmark _ _ _ _ _ _ _ _ _ _

◄► MOVE   SELECT   ↺ RETURN

Using the ANYKEY button.

· Press the **ANYKEY** button during playback.

Search
Bookmark
Audio   ▶
Subtitle   ▶
Angle   ▶
Repeat   ▶
Zoom
Select Media   ▶

· Press the ▲▼ buttons to select **Bookmark**, then press the **ENTER** or ▶ button.

2 Press the **ENTER** button when the desired scene appears.

· The number 1 is displayed and the scene is memorized.

Bookmark 1 _ _ _ _ _ _ _ _ _

◄► MOVE   ▶ PLAY   ⊘ CANCEL   ↺ RETURN

3 Press the ◄ ► buttons to move to the next position.

4 Press the **ENTER** button again when the desired scene appears.
The number 2 is displayed and the scene is memorized.

Bookmark 1 2 _ _ _ _ _ _ _ _

◄► MOVE   ▶ PLAY   ⊘ CANCEL   ↺ RETURN
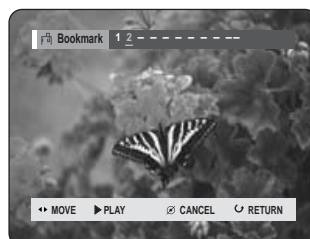
· Repeat above to bookmark other positions.

· You can bookmark up to 10 scenes.

NOTE ■ When the disc tray is opened and then closed, bookmarks will disappear.

Playback

Playing back a bookmark

1 Press the **MARKER** button during playback.

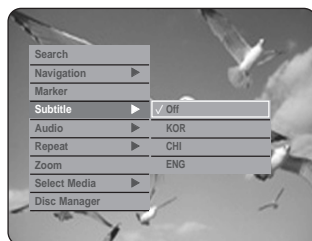**Using the ANYKEY button.**

• Press the **ANYKEY** button during playback.

• Press the ▲▼ buttons to select **Bookmark**, then press the **ENTER** or ▶ button.

2 Press the ◀ ▶ buttons to select a bookmarked scene.

3 Press the **ENTER** or **PLAY(⊕)** button to start playing from the selected scene.

Clearing a bookmark

Using the MARKER button

1 Press the **MARKER** button during playback.

Using the ANYKEY button.

• Press the **ANYKEY** button during playback.
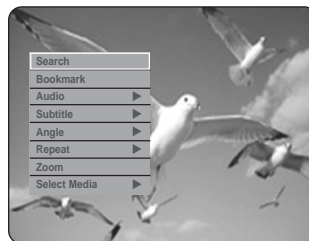
• Press the ▲▼ buttons to select **Bookmark**, then press the **ENTER** or ▶ button.

2 Press the ◀ ▶ buttons to select a bookmarked scene.
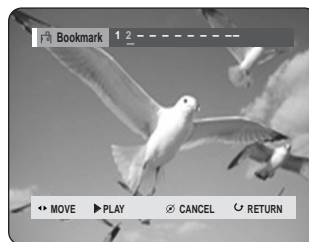
3 Press the **CANCEL** button to delete the selected bookmark.

Playback

Selecting the Subtitle Language

Selects one of the subtitle languages recorded on the disc.

HDD   DVD-VIDEO   DVD-RAM   DVD-RW

(VR mode)

Using the SUBTITLE button
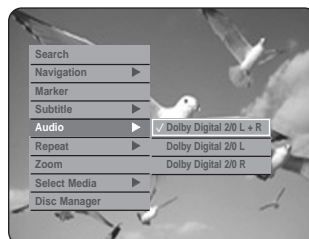
1 Press the **SUBTITLE** button during playback.
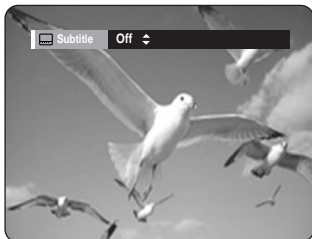
2 Press the ▲▼ buttons to select the desired subtitle language. Also, press the **SUBTITLE** button repeatedly to select the desired subtitle language.

　• To make the screen disappear, press the **CANCEL** or **RETURN** button.
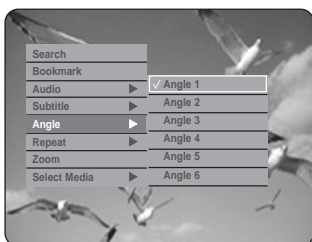

ANYKEY Using the ANYKEY button

1 Press the **ANYKEY** button during playback.
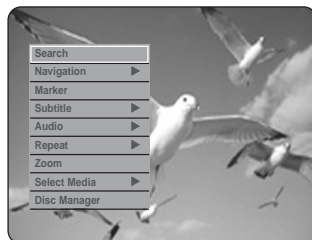
2 Press the ▲▼ buttons to select **Subtitle**, then press the **ENTER** or ▶ button.

3 Press the ▲▼ buttons to select the desired subtitle language, then press the **ENTER** or ▶ button.

⊗
NOTE

- The subtitle display may be different depending on the disc type.
- Some discs allow you to select the language for the disc menu only.
- If the subtitles overlap, disable the caption function on your TV.

Playback

English **- 63**

Selecting the Soundtracks & Audio Channels

Selecting the Audio

Selects one of the soundtracks recorded on the disc. Also selects the audio channels from recorded TV programs.

HDD   DVD-VIDEO   DVD-RAM   DVD-RW

(VR mode)

Using the AUDIO button

1 Press the **AUDIO** button during playback.

HDD/DVD-RAM/-RW

◄ Audio   **Dolby Digital 2/0 L + R**

DVD-VIDEO

◄ Audio   **ENG Dolby Digital 5.1CH**
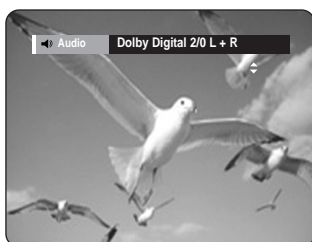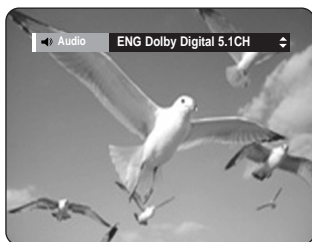
2 Press the ▲▼ buttons to select the desired soundtracks or audio channel. Also, press the **AUDIO** button repeatedly to select the desired soundtracks or audio channel.

· To make the screen disappear, then press the **CANCEL** or **RETURN** button.

ANYKEY

Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶
Repeat ▶
Zoom
Select Media ▶
Disc Manager

2 Press the ▲▼ buttons to select **Audio**, then press the **ENTER** or ▶ button.

Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶   ✓ Dolby Digital 2/0 L + R
Repeat ▶   Dolby Digital 2/0 L
Zoom   Dolby Digital 2/0 R
Select Media ▶
Disc Manager
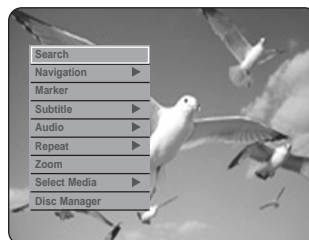
3 Press the ▲▼ buttons to select the desired soundtracks or audio channel, then press the **ENTER** or ▶ button.

✎ **NOTE**
- Soundtracks or Audio channel may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.

Playback

Changing the Camera Angle

When a DVD-VIDEO contains multiple angles of a particular scene, you can select the Angle function.

DVD-VIDEO

ANYKEY Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

Search
Bookmark
Audio ▶
Subtitle ▶
Angle ▶
Repeat ▶
Zoom
Select Media ▶

2 Press the ▲▼ buttons to select **Angle**, then press the **ENTER** or ▶ button.

Search
Bookmark
Audio ▶   √ Angle 1
Subtitle ▶   Angle 2
Angle ▶   Angle 3
Repeat ▶   Angle 4
Zoom   Angle 5
Select Media ▶   Angle 6

3 Press the ▲▼ buttons to select the desired angle, then press the **ENTER** or ▶ button.

NOTE
- This function is disc-dependent, and may not work on all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.

Repeat Play

Playing Repeatedly(Repeat Playback)

HDD   DVD-VIDEO   DVD-RAM   DVD-RW   DVD-R

Using the REPEAT button

1 Press the **REPEAT** button during playback.

Repeat   Off ◆
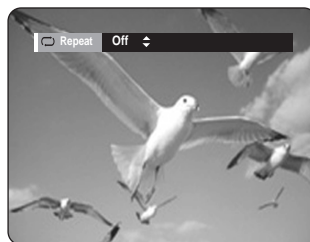
2 Press the ▲▼ buttons to select the **Off**, **Title** or **Chapter** you want to play repeatedly, then press the **ENTER** button.
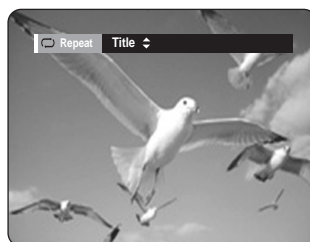
Repeat   Title ◆

English **- 65**

Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

```
Search
Navigation      ▶
Marker
Subtitle        ▶
Audio           ▶
Repeat          ▶
Zoom
Select Media    ▶
Disc Manager
```

2 Press the ▲▼ buttons to select the **Repeat**, then press the **ENTER** or ▶ button.

```
Search
Navigation      ▶
Marker
Subtitle        ▶
Audio           ▶
Repeat          ▶    ✓ Repeat Off
Zoom                   Repeat A - B
Select Media    ▶      Repeat Title
Disc Manager
```
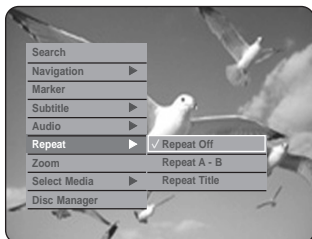
3 Press the ▲▼ buttons to select **Repeat Off**, **Repeat A-B**, **Repeat Title**, **Repeat Track** or **Repeat Chapter** you want to play repeatedly, then press the **ENTER** or ▶ button.

NOTE

■ HDD/DVD-RAM/-RW(VR mode), unfinalized DVD-R and unfinalized DVD-RW (V mode) discs will not repeat a chapter.

Repeat A-B

HDD DVD-VIDEO DVD-RAM DVD-RW DVD-R

Using the REPEAT A-B button

1 Press the **REPEAT A-B** button during playback.
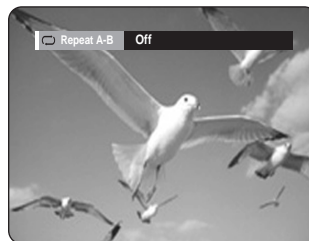
```
Repeat A-B    Off
```

2 Press the **ENTER** button at the point where you want the repeat play to start (A) and press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.

```
Repeat A-B    A-B
```

Playback

ANYKEY
Using the ANYKEY button

1 Press the **ANYKEY** button during playback.

Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶
Repeat ▶
Zoom
Select Media ▶
Disc Manager
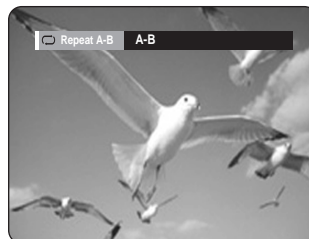
2 Press the ▲▼ buttons to select **Repeat**, then press the **ENTER** or ▶ button.

Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶
Repeat ▶   ✓ Repeat Off
Zoom   Repeat A - B
Select Media ▶   Repeat Title
Disc Manager

3 Press the ▲▼ buttons to select **Repeat A-B**, then press the **ENTER** or ▶ button.

4 Press the **ENTER** button at the point where you want the repeat play to start (A) and press it again at the point where you want the repeat play to stop (B).Repeat playback of the A-B section starts.

- To return to normal playback -

5 Press the **CANCEL** button to return to normal playback.

✎
NOTE
- If you set point (B) before five seconds of playback has lapsed, the prohibition mark (⊘) will appear.
- You can also activate Normal Playback by pressing the **CANCEL** button.
- Audio CDs(CD-DA) and MP3 discs do not support the Repeat A-B function.

Zooming-In

HDD DVD-VIDEO DVD-RAM DVD-RW DVD-R

1 Press the **ANYKEY** button during playback.

Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶
Repeat ▶
Zoom
Select Media ▶
Disc Manager

2 Press the ▲▼ buttons to select **Zoom**, then press the **ENTER** or ▶ button. (⊕) will be displayed.

3 Press ▲▼ ◄ ► buttons to move to the area you want to enlarge.

4 Press the **ENTER** button.
The screen will be enlarged to twice the normal size. The screen size will be enlarged to four times the normal size.

HDD/DVD-VIDEO/ DVD-RAM/-RW/-R	normal size → x2 → x4 → x2 → normal size

✎
NOTE
- When recording is done in the EP mode, the Zoom function will not be supported except when the recording has been done in V mode.

Select Media

1 Press the **ANYKEY** button during playback.
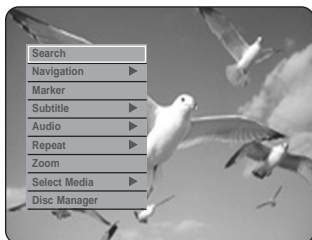
Search
Navigation ▶
Marker
Subtitle ▶
Audio ▶
Repeat ▶
Zoom
Select Media ▶
Disc Manager

2 Press the ▲▼ buttons to select **Select Media**, then press the **ENTER** or ▶ button.

Search	
Navigation ▶	
Marker	
Subtitle ▶	
Audio ▶	
Repeat ▶	
Zoom	
Select Media ▶	✓ HDD
Disc Manager	DVD
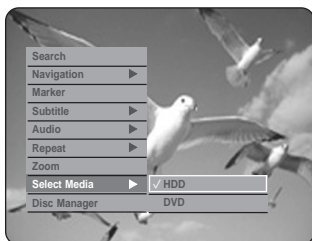
3 Press the ▲▼ buttons to select **HDD** or **DVD**, then press the **ENTER** or ▶ button.

Playing an Audio CD/MP3

▌ Playing an Audio CD(CD-DA)

1 Insert an audio CD (CD-DA) into the disc tray.
· The audio CD menu appears and the tracks (songs) are played automatically.
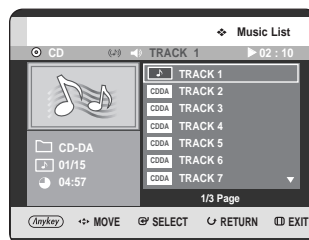
2 Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **ENTER** button.

▌ Audio CD(CD-DA) Screen Elements
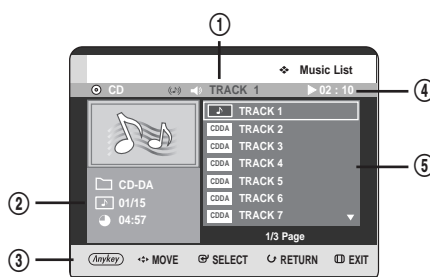
1. **Current track (song)**: Displays the number of the track currently being played.
2. Displays the current play index, total track number.
3. Display available buttons.
4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the track list (song list).

## a ■ Buttons on the Remote Control used for Audio CD(CD-DA) playback

1. ▲▼**:** Selects a track (song).
2. ◀ ▶ **:** Moves the page up/down.
3. **ENTER button:** Plays the selected track (song).
4. **SKIP (⊙) button:** Plays the next track.
5. **SKIP (⊙) button:** Returns to the beginning of the current track when pressed during playback.
   If pressed again, your HDD & DVD RECORDER moves to and plays the previous track.
   If you press the this button within three seconds after playback starts, the previous track will be played.
   If you press the this button after three seconds, the current track will be replayed from the beginning.
6. **Press the SEARCH (⊙ ⊙) buttons:**
   Fast Play (X2, X4, X8)
7. **STOP (⊙) button:** Stops a track(song).
8. **PLAY (⊙) button:** Plays a track(song) or pauses playback.
9. **ANYKEY button**: The ANYKEY menu is displayed.
   (**Play Mode**, **Go To Playlist** or **New Playlist**).

▌ Playing an MP3 Disc

1 Insert an MP3 disc into the disc tray.
・The MP3 menu is displayed and the tracks (songs) are played automatically.
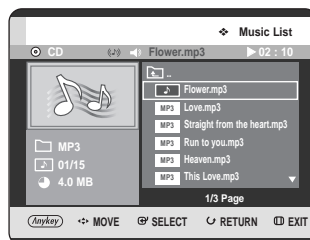
2 Press the ▲▼ buttons to select the track you want to hear, and then press the **ENTER** button.

▌ MP3 Screen Elements
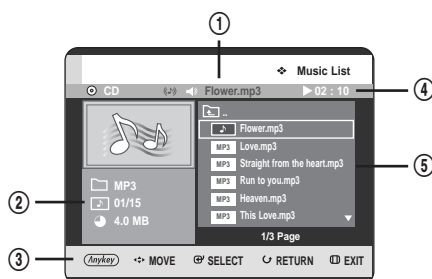
1. **Current track (song):** Displays the name of the track being played.
2. Displays the current folder, play index and current track size.
3. Displays available buttons.
4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the information for the folder and its tracks.

⊗
NOTE

■ If a disc contains only MP3 files or only JPEG files, the MP3 or JPEG screen appears after the disc is loaded.

■ If a disc contains a mix of MP3 and JPEG files, you need to select Music for MP3 files or Photo for JPEG files.

Playback

Buttons on the Remote Control used for MP3 playback

1. ▲▼: Selects a track (song).
2. ◀ ▶ : Moves the page up/down.
3. **ENTER button:** Plays the selected track (song).
4. **SKIP (⊕) button:** Plays the next track.
5. **SKIP (⊕) button:** Returns to the beginning of the current track when pressed during playback.
   If pressed again, your HDD & DVD RECORDER moves to and plays the previous track.
   If you press the this button within three seconds after playback starts, the previous track will be played.
   If you press the this button after three seconds, the current track will be replayed from the beginning.
6. **STOP (⊙) button:** Stops a track(song).
7. **PLAY (⊙) button:** Plays a track(song) or pauses playback.
8. **ANYKEY button**: The ANYKEY menu is displayed. (**Copy**, **Play Mode**, **Go To Playlist**, **New Playlist** or **Select Media**).

Repeat CD (CD-DA) & MP3

Using the REPEAT button.

1 Press the **REPEAT** button during playback.
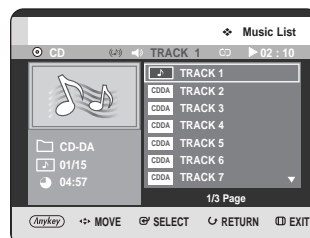
2 Press the **REPEAT** button repeatedly to select the repeat mode you want.
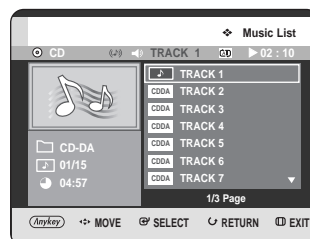
- **Repeat Track (CD (CD-DA)/MP3)**
- **Repeat Folder (MP3)**
- **Repeat All (CD (CD-DA)/MP3)**
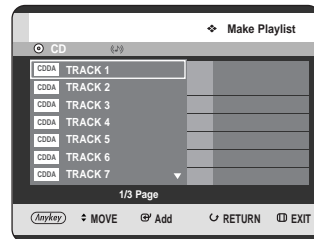- **Random (CD (CD-DA)/MP3):** The random option plays a disc's track in random order.
- **Normal (CD (CD-DA)/MP3):** Track on a disc are played in the order in which they were recorded on the disc.

- To return to normal playback -

3 Press the **REPEAT** or **CANCEL** button repeatedly to return to normal playback.

Playback

1 Press the **ANYKEY** button during the Music List playback.

```
                              ❖  Music List
 ⊙ CD        ((♪))  ◀))  TRACK  1        ▌ 02 : 10
                          ♪    TRACK 1
                          CDDA  TRACK 2
                          CDDA  TRACK 3
                          CDDA  TRACK 4
                          CDDA  TRACK 5
 ▭  CD-DA
 Play Mode           ▶    CDDA  TRACK 6
 Go To Playlist           CDDA  TRACK 7      ▼
 New Playlist                    1/3 Page
 Anykey   ↔ MOVE   ☞ SELECT   ↺ RETURN   ☐ EXIT
```
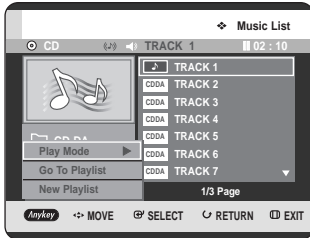
2 Press the ▲▼ buttons to select **Play Mode**, then press the **ENTER** or ▶ button.

```
                              ❖  Music List
 ⊙ CD        ((♪))  ◀))  TRACK  1        ▌ 02 : 10
                          ♪    TRACK 1
                          CDDA  TRACK 2
                          CDDA  TRACK 3
                          CDDA  TRACK 4
 ▭  CD-DA                 √  Normal
 Play Mode           ▶    Repeat Track
 Go To Playlist           Repeat All        ▼
 New Playlist             Random
 Anykey   ↔ MOVE   ☞ SELECT   ↺ RETURN   ☐ EXIT
```

3 Press the ▲▼ buttons to select desired play mode, then press the **ENTER** or ▶ button.

· **Normal (CD (CD-DA)/MP3):** Tracks on a disc are played in the order in which they were recorded on the disc.
· ▭ **Repeat Track (CD (CD-DA)/MP3)**
· ▭ **Repeat Folder (MP3)**
· ▭ **Repeat All (CD (CD-DA)/MP3)**
· ▭ **Random (CD (CD-DA)/MP3):** The random option plays a disc's tracks in random order.

New Playlist

You can register a maximum 28 tracks in the playlist.

1 Press the **ANYKEY** button during the Music List playback.
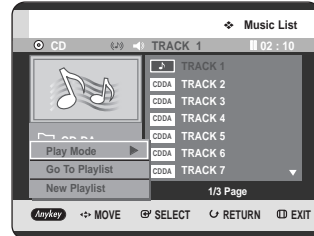
```
                              ❖  Music List
 ⊙ CD        ((♪))  ◀))  TRACK  1        ▌ 02 : 10
                          ♪    TRACK 1
                          CDDA  TRACK 2
                          CDDA  TRACK 3
                          CDDA  TRACK 4
                          CDDA  TRACK 5
 ▭  CD-DA
 Play Mode           ▶    CDDA  TRACK 6
 Go To Playlist           CDDA  TRACK 7      ▼
 New Playlist                    1/3 Page
 Anykey   ↔ MOVE   ☞ SELECT   ↺ RETURN   ☐ EXIT
```

2 Press the ▲▼ buttons to select **New Playlist**, then press the **ENTER** or ▶ button.

```
                              ❖  Make Playlist
 ⊙ CD        ((♪))
 CDDA  TRACK 1
 CDDA  TRACK 2
 CDDA  TRACK 3
 CDDA  TRACK 4
 CDDA  TRACK 5
 CDDA  TRACK 6
 CDDA  TRACK 7       ▼
                    1/3 Page
 Anykey   ↕ MOVE   ☞ Add   ↺ RETURN   ☐ EXIT
```

**3** Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **ENTER** button.

```
                              ❖  Make Playlist
 ⊙ CD        ((♪))
 CDDA  TRACK 1        01.   TRACK 1
 CDDA  TRACK 2        02.   TRACK 3
 CDDA  TRACK 3        03.   TRACK 7
 CDDA  TRACK 4        04.   TRACK 4
 CDDA  TRACK 5
 CDDA  TRACK 6
 CDDA  TRACK 7   ▼
      1/3 Page            1/1 Page
 Anykey   ↔ MOVE   ☞ Add   ↺ RETURN   ☐ EXIT
```

Playback

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4 If you playlisted a wrong track, press the ▶▲▼ buttons to select the wrong track, then press the **ENTER** or **CANCEL** button. The wrong track will be removed.
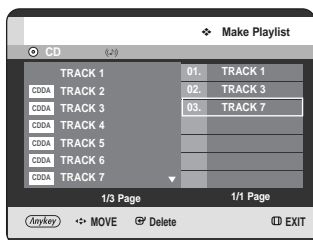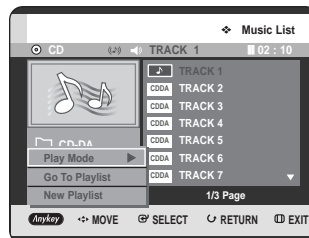
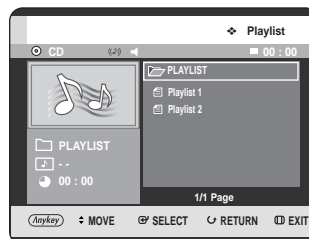

5 To store the playlist, press the **ANYKEY** button.
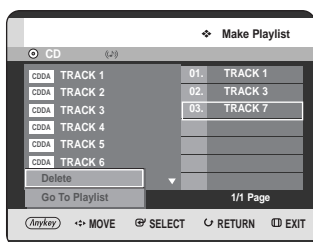
6. Press the ▲▼ buttons to select the **Go To Playlist**, then press the **ENTER** button. A new Playlist will be created.

Go To Playlist

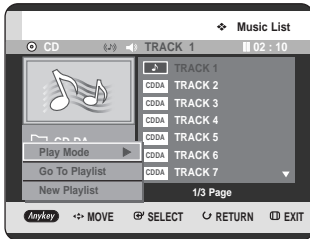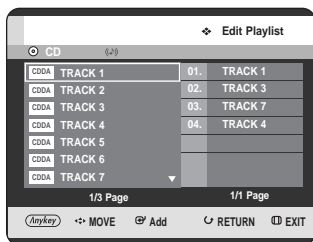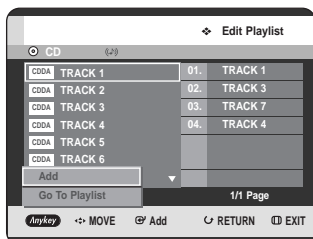**1** Press the **ANYKEY** button during the Music List playback.

2 Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ▶ button.

3 Press the ▲▼ buttons to select the desired playlist folder, then press the **ENTER** button. The selected tracks are played automatically.

Delete the Playlist

1 Press the **ANYKEY** button during the Music List playback.

```
                              ❖ Music List
 ⊙ CD        (♪)) ◁ ▷ TRACK 1          ▮▮ 02 : 10
                      ♪   TRACK 1
                      CDDA TRACK 2
                      CDDA TRACK 3
                      CDDA TRACK 4
             CD RA    CDDA TRACK 5
  Play Mode      ▶    CDDA TRACK 6
  Go To Playlist      CDDA TRACK 7      ▼
  New Playlist             1/3 Page
 ( Anykey )  ⋯ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```
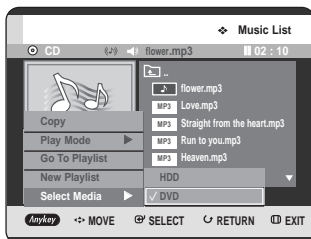
2 Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ▶ button.

```
                              ❖ Playlist
 ⊙ CD        (♪)) ◁                ▮ 00 : 00
                      ▱▷ PLAYLIST
                      ▤ Playlist 1
                      ▤ Playlist 2
  ▭ PLAYLIST
  ♪ - -
  ◕ 00 : 00               1/1 Page
 ( Anykey )  ↕ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```

3 Press the ▲▼ buttons to select the Playlist you want to delete, then press the **ANYKEY** button.

```
                              ❖ Playlist
 ⊙ CD        (♪)) ◁                ▮ 00 : 00
                      ▱▷ PLAYLIST
                      ▤ Playlist 1
                      ▤ Playlist 2
  Delete Playlist
  Go To Edit Playlist
  Go To Music List
  New Playlist              1/1 Page
 ( Anykey )  ↕ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```
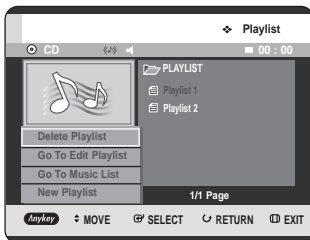
4 Press the ▲▼ buttons to select the **Delete Playlist**, then press the **ENTER** or ▶ button.

```
                              ❖ Playlist
 ⊙ CD        (♪)) ◁                ▮ 00 : 00
                      ▱▷ PLAYLIST

         Do you want to delete?

         Yes Playlist    No

   ↔ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```
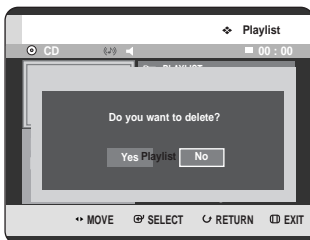
5 Press the ◀▶ buttons to select **Yes**, then press the **ENTER** button. The selected Playlist is deleted.

Go To Edit Playlist

1 Press the **ANYKEY** button during the Music List playback.
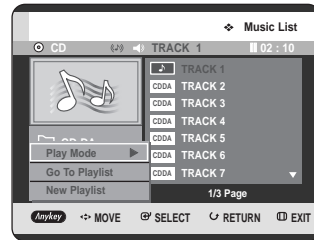
```
                              ❖ Music List
 ⊙ CD        (♪)) ◁ ▷ TRACK 1          ▮▮ 02 : 10
                      ♪   TRACK 1
                      CDDA TRACK 2
                      CDDA TRACK 3
                      CDDA TRACK 4
             CD RA    CDDA TRACK 5
  Play Mode      ▶    CDDA TRACK 6
  Go To Playlist      CDDA TRACK 7      ▼
  New Playlist             1/3 Page
 ( Anykey )  ⋯ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```

2 Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ▶ button.

```
                              ❖ Playlist
 ⊙ CD        (♪)) ◁                ▮ 00 : 00
                      ▱▷ PLAYLIST
                      ▤ Playlist 1
                      ▤ Playlist 2
  ▭ PLAYLIST
  ♪ - -
  ◕ 00 : 00               1/1 Page
 ( Anykey )  ↕ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```

3 Press the ▲▼ buttons to select the **Playlist** you want to edit, then press the **ANYKEY** button.

```
                              ❖ Playlist
 ⊙ CD        (♪)) ◁                ▮ 00 : 00
                      ▱▷ PLAYLIST
                      ▤ Playlist 1
                      ▤ Playlist 2
  Delete Playlist
  Go To Edit Playlist
  Go To Music List
  New Playlist              1/1 Page
 ( Anykey )  ↕ MOVE   ☞ SELECT  ↻ RETURN  ◫ EXIT
```

Playback

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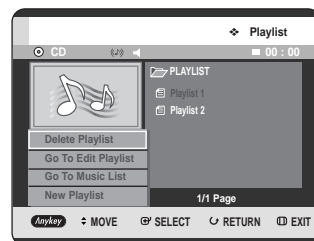
4 Press the ▲▼ buttons to select the **Go To Edit Playlist**, then press the **ENTER** or ▶ button.

```
                              ❖ Edit Playlist
⊙ CD         (♫)
 CDDA  TRACK 1        01.  TRACK 1
 CDDA  TRACK 2        02.  TRACK 3
 CDDA  TRACK 3        03.  TRACK 7
 CDDA  TRACK 4        04.  TRACK 4
 CDDA  TRACK 5
 CDDA  TRACK 6
 CDDA  TRACK 7    ▼
      1/3 Page            1/1 Page
 Anykey  ◆ MOVE   ☞ Add    ↻ RETURN  ⓘ EXIT
```

5 Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **ENTER** button.

6 If you playlisted a wrong track, press the ▶ ▲▼ buttons to select the wrong track, then press the **ENTER** or **CANCEL** button to remove the track.

7 To store the playlist, press the **ANYKEY** button.

```
                              ❖ Edit Playlist
⊙ CD         (♫)
 CDDA  TRACK 1        01.  TRACK 1
 CDDA  TRACK 2        02.  TRACK 3
 CDDA  TRACK 3        03.  TRACK 7
 CDDA  TRACK 4        04.  TRACK 4
 CDDA  TRACK 5
 CDDA  TRACK 6
      Add         ▼
      Go To Playlist      1/1 Page
 Anykey  ◆ MOVE   ☞ Add    ↻ RETURN  ⓘ EXIT
```

8 Press the ▲▼ buttons to select the **Go To Playlist**, then press the **ENTER** button. Playlist will be edited.

Go To Music List

1 Press the **ANYKEY** button during the Playlist playback.

```
                              ❖ Playlist
⊙ CD       (♫) ◀) TRACK 1        ❚ 02 : 10
                  📂 Playlist 1
                   🎵   TRACK 1
                   CDDA TRACK 2
                   CDDA TRACK 3
   📁 PLAYLIST      CDDA TRACK 4
   📄 01/04
   Go To Music List
   New Playlist           1/1 Page
 Anykey  ◆ MOVE   ☞ SELECT  ↻ RETURN  ⓘ EXIT
```
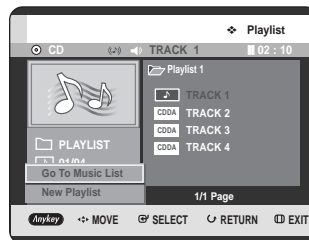
2 Press the ▲▼ buttons to select **Go To Music List**, then press the **ENTER** or ▶ button.

```
                              ❖ Music List
⊙ CD       (♫) ◀) TRACK 1        ▶ 02 : 10
                   🎵   TRACK 1
                   CDDA TRACK 2
                   CDDA TRACK 3
                   CDDA TRACK 4
   📁 CD-DA         CDDA TRACK 5
   🎵 01/15         CDDA TRACK 6
   ⏺ 04:57         CDDA TRACK 7    ▼
                        1/3 Page
 Anykey  ◆ MOVE   ☞ SELECT  ↻ RETURN  ⓘ EXIT
```

Playback
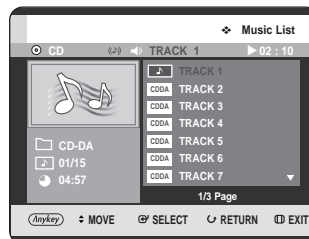
Select Media (MP3)

1 Press the **ANYKEY** button.
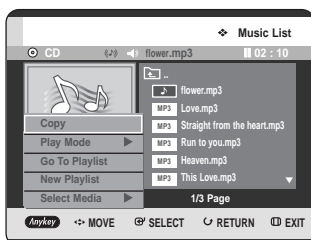
```
                          ❖ Music List
⊙ CD        (♪♪)  ◄  flower.mp3        ▌ 02 : 10
                  📁 ..
                  ♪   flower.mp3
           MP3  Love.mp3
  Copy     MP3  Straight from the heart.mp3
  Play Mode    ▶  MP3  Run to you.mp3
  Go To Playlist   MP3  Heaven.mp3
  New Playlist     MP3  This Love.mp3      ▼
  Select Media ▶        1/3 Page
  Anykey  ↔ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

2 Press the ▲▼ buttons to select **Select Media**, then press the **ENTER** or ▶ button.

```
                          ❖ Music List
⊙ CD        (♪♪)  ◄  flower.mp3        ▌ 02 : 10
                  📁 ..
                  ♪   flower.mp3
           MP3  Love.mp3
  Copy     MP3  Straight from the heart.mp3
  Play Mode    ▶  MP3  Run to you.mp3
  Go To Playlist   MP3  Heaven.mp3
  New Playlist     HDD                ▼
  Select Media ▶   √ DVD
  Anykey  ↔ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

3 Press the ▲▼ buttons to select **HDD** or **DVD**, then press the **ENTER** or ▶ button.
If there are no mp3 files on the selected media, it notifies you that there are no mp3 files and the media will not be switched.

Viewing a Picture

1 Insert a JPEG disc or Mixed disc (JPEG + MP3) into the disc tray.

```
                          ❖ Title
⊙ CD
  📺 Title       Press ENTER or Right button
                for Title List.
  🎵 Music
  🖼 Photo
  ⏱ Timer Record
  ⚙ Setup
  Anykey  ↔ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```
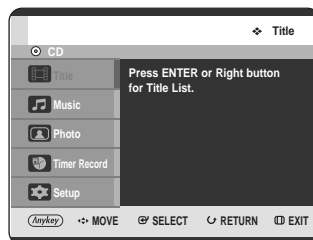
2 Press the ▲▼ buttons to select **Photo**, then press the **ENTER** or ▶ button.

```
                          ❖ Photo List
⊙ CD    📷 DSC01194          Index: 1/10

  [...]   [DSC01189] [DSC01190] [DSC01191]

  [DSC01192] [DSC01193] [DSC01194] [DSC01199]
                1/2 Page
  Anykey  ↔ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```
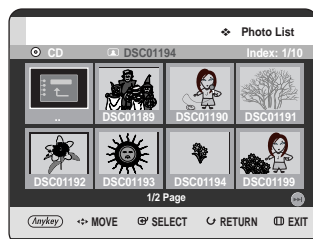
3 Press the ▲▼ ◄ ▶ buttons to select a picture.
· To see the next 8 pictures, press the **SKIP(⇥)** button.
· To see the previous 8 pictures, press the **SKIP(⇤)** button.

✎
NOTE
- If a disc contains only MP3 files or only JPEG files, the MP3 or JPEG screen appears after the disc is loaded.
- If a disc contains a mix of MP3 and JPEG files, you need to select Music for MP3 files or Photo for JPEG files.

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Slide Show

To set up, follow steps 1~3 on page 75.

4 Press the **ANYKEY** button.
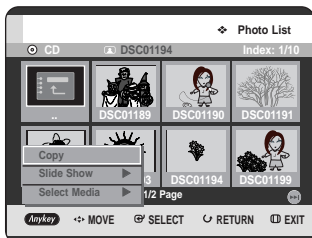
5 Press the ▲▼ buttons to select **Slide Show**, then press the **ENTER** or ▶ button.
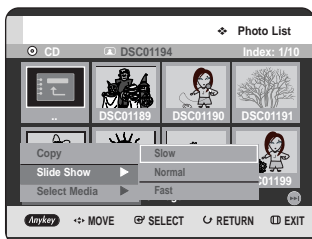
6 Press the ▲▼ buttons to select the slide show speed, then press the **ENTER** or ▶ button. The slide show starts.

- To stop the Slide Show -

1 Press the **ANYKEY** button.
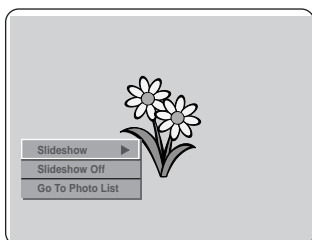
2 Press the ▲▼ buttons to select **Slideshow Off**, then press the **ENTER** or ▶ button.

Rotate

To set up, follow steps 1~3 on page 75.

4 Press the **ENTER** button to select the picture you want to see, then press the **ANYKEY** button.
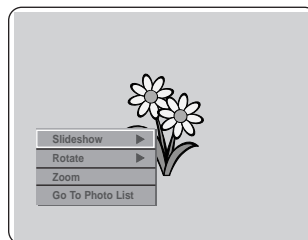
5 Press the ▲▼ buttons to select **Rotate**, then press the **ENTER** or ▶ button.
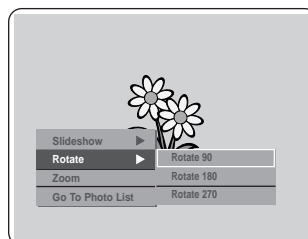
6 Press the ▲▼ buttons to select the rotate angle, then press the **ENTER** or ▶ button.

- To stop the Rotate -

1 Press the **ANYKEY** button.
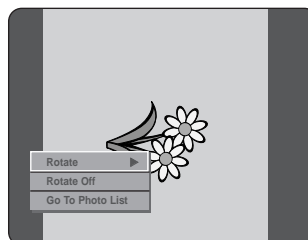
2 Press the ▲▼ buttons to select **Rotate Off**, then press the **ENTER** or ▶ button.

Playback

Zoom

To set up, follow steps 1~3 on page 75.

4 Press the **ENTER** button to select the picture you want to see, then press the **ANYKEY** button.

Slideshow ▶
Rotate ▶
Zoom
Go To Photo List
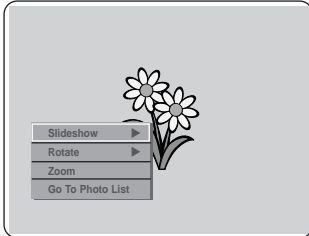
5 Press the ▲▼ buttons to select **Zoom**, then press the **ENTER** or ▶ button.

6 Each time the **ENTER** button is pressed, the picture is enlarged up to x4(four times the normal size).

X2 → X4 → X2 → Normal

- To stop the Zoom -

1 Press the **ANYKEY** button.

Zoom Off
Go To Photo List
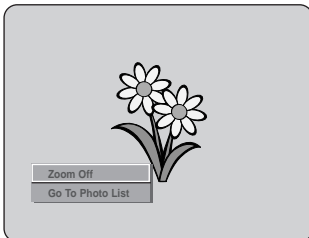
2 Press the ▲▼ buttons to select **Zoom Off**, then press the **ENTER** or ▶ button.

Go To Photo List

To set up, follow steps 1~3 on page 75.

4 Press the **ENTER** button to select the picture you want to see, then press the **ANYKEY** button.

Slideshow ▶
Rotate ▶
Zoom
Go To Photolist
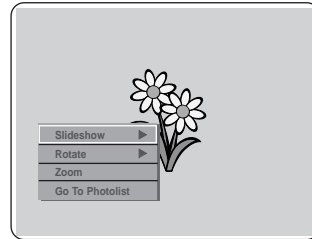
5 Press the ▲▼ buttons to select **Go To Photo List**, then press the **ENTER** or ▶ button.

❖ Photo List
⊙ CD 🖻 DSC01194 Index: 1/10

.. DSC01189 DSC01190 DSC01191
DSC01192 DSC01193 DSC01194 DSC01199
1/2 Page
(Anykey) ✛ MOVE ☞ SELECT ↻ RETURN ⊡ EXIT

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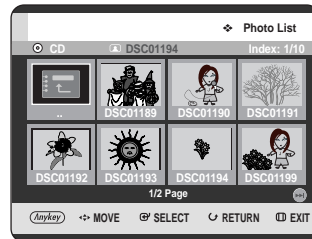
Recording

This section shows various HDD & DVD Recording methods.

Before Recording

This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

▌ Recordable Discs

This HDD & DVD RECORDER can record on the following discs.

HDD	DVD-RAM	DVD-RW	DVD-R
HDD	*DVD* RAM	*DVD* RW	*DVD* R

·DVD-RWs and DVD-RAMs are rewritable.
·DVD-Rs are non-rewritable

Compatibility between Samsung and Other Companies' Recorders

Disc Types	Recording format	Recording Device	Finalizing	Additional Recording in Samsung Recorder
DVD-RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Recordable
	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable
DVD-R	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable

✎
NOTE

- Finalize
  - This closes the DVD-RW/-R so no additional recording can be done.
- Unfinalize
  - This allows additional recording on a DVD-RW disc originally recorded on the HDD & DVD RECORDER.
  - A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalized.
  - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalized.
  - A DVD-R disc cannot be unfinalized.

Recording Formats

When you insert an unused disc, the following message appears. Since available functions differ depending on the disc type, select a disc that best fits your preferences.
DVD-RAM: Use after formatting the disc.

Unformatted Disc
Do you want to format this disc?
Yes   No

DVD-RW: When an unused DVD-RW disc is first inserted, the message "Uninitialized Disc Do you want to initialize this disc?" will be displayed. If you select **Yes**, the disc will be formatted in VR mode.
If you want to change the mode, refer to Formatting a Disc on page 115.

Uninitialized Disc
Do you want to initialize this disc?
Yes   No

DVD-R: Formatting DVD is unnecessary and only Video Mode Recording is supported.

DVD-RW(V mode)/-R

· Chapters will be created automatically when you finalize recording on DVD-RW/-R discs in Video mode.
  The chapter's length (interval between chapters) varies according to the recording mode.
· Simple editing (erasing titles/changing title name)

DVD-RAM/-RW(VR mode)

· This mode allows multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.)
· Various editing options using a created Playlist.

Recording Mode

Select one of four recording modes by pressing the **REC MODE** button repeatedly while the unit is in Stop mode for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases.

Recording Mode	Recording Times	
	HDD (120GB)	DVD-RAM/-RW/-R
XP (high quality mode)	Approx. 29 hours	Approx. 1 hour about 8.5 Mbps
SP (standard quality mode)	Approx. 55 hours	Approx. 2 hours about 4.5 Mbps
LP (long recording mode)	Approx. 106 hours	Approx. 4 hours about 2 Mbps
EP (extended mode)	Approx. 157 hours	Approx. 6 hours/ about 1.6 Mbps
	Approx. 208 hours	Approx. 8 hours/ about 1.2 Mbps

NOTE
■ Recording time may vary according to specific conditions.

Unrecordable video

Video with copy protection cannot be recorded on this HDD & DVD RECORDER.
When the HDD & DVD RECORDER receives a copy-guard signal while recording, recording stops and the following message appears on the screen.

You cannot record copy protected movie.
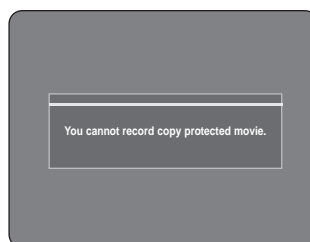
Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never. If you want to record a copy-once type program, use DVD-RW with CPRM in VR Mode and DVD-RAM.

Signal type Media	Copy-Free	Copy-Once	Copy-Never
DVD-RW(Ver.1.1)	O	-	-
DVD-RW(Ver.1.1) with CPRM VR mode	O	O*	-
V mode	O		-
DVD-R	O		-
DVD-RAM(Ver.2.0)	O	O*	-

This * marked parts are compatible with CPRM.

Once "Copy Once" has been recorded, recording

cannot be done anymore.

- Content Protection for Recordable Media (CPRM)
CPRM is a mechanism that ties a recording to the media on
which it is recorded. It is supported by some HDD & DVD
RECORDERs, but not by many DVD players. Each blank
recordable DVD has a unique 64-bit media ID etched in the
BCA. When protected content is recorded onto the disc, it can
be encrypted with a 56-bit C2 (Cryptomeria) cipher derived
from the media ID.

During playback, the ID is read from the BCA and used to
generate a key to decrypt the contents of the disc. If the
contents of the disc are copied to other media, the ID will be
absent or wrong and the data will not be decryptable.

Recording the current TV program you are watching

Check that the disc has enough available space for the
recording. Adjust the recording mode.

1 Press the **HDD** or **DVD** button.
If you select DVD, Press the **OPEN/CLOSE** button and
place a recordable disc on the disc tray.
Press the **OPEN/CLOSE** button to close the disc tray.
Wait until **LOAD** disappears from the front panel display.

If an unused DVD-RAM disc is used, you will be
prompted to format first. Make your selection using the
◀ ▶ buttons, then press **ENTER** button. (See page 79)

Unformatted Disc
Do you want to format this disc?
Yes   No

If an unused DVD-RW disc is used, whether to initialize
or not will be asked first. Make your selection, then press
the **ENTER** button.(See page 79)

Uninitialized Disc
Do you want to initialize this disc?
Yes   No

2 Press the **CH (⌃ ⌄)** or number buttons to select
the current program you want to record.

3 Press the **REC MODE** button repeatedly, (or press the **REC MODE** button and then press the ▲▼ buttons) to select the recording speed (quality).

→ **SP → LP → EP → XP**

Record Mode SP 031:39

4 Press the **REC** button.
Information concerning the channel is displayed on the screen, then recording begins.
Icon(○) is displayed on the front panel.

● Recording : CH 11 [SAP]

- To pause recording -

· Press the **REC PAUSE** button to pause a recording in progress.

· Press the **REC PAUSE** button again during pause to resume recording.

· You can switch channels by pressing the **CH (**○ ○ **)** buttons while recording pauses.

- To stop recording -

Press the **STOP (**○**)** button to stop or finish a recording in progress.

· When using DVD-RAM/-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

✎
NOTE

■ You cannot change the recording mode and the channel while recording.

■ Recording will stop automatically if there is no free space left for recording.

■ Up to 99 titles can be recorded onto a disc.(DVD-RAM/-RW/-R)

■ Up to 999 titles can be registered on the HDD.

■ HDD recording is available for up to 24 hours, and when recording for 24 hours, 4 titles will be recorded with each being 6 hours in length.

■ Recording will stop automatically if a copy protected image is selected.

■ DVD-RAM/-RW discs must be formatted before starting to record. Most new discs are sold unformatted.

■ Do not use DVD-R authoring discs with this unit.

Recording

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Recording from external equipment you are watching

HDD DVD-RAM DVD-RW DVD-R

Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

1 Press the **HDD** or **DVD** button.
If you select DVD, press the **OPEN/CLOSE** button and place a recordable disc on the disc tray. Press the **OPEN/CLOSE** button to close the disc tray.
Wait until **LOAD** disappears from the front panel display.
If an unused DVD-RAM disc is used, whether to format or not will be asked first. (See page 79)
If an unused DVD-RW disc is used, whether to initialize or not will be asked first. (See page 79)

2 Press the **INPUT** button to select the input source according to the connection you made.
The front panel display changes in the following sequence:
CH Number → AV 1 → AV 2 → DV

If you connect a digital camcorder, press the **INPUT** button to select **DV**. (See page 83)

3 Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the ▲▼ buttons) to select the recording speed (quality).
SP → LP → EP → XP

Record Mode SP 031:39

4 Press the **REC** button.
Information concerning the external input mode is displayed on the screen, then recording begins.
Icon(◯) is displayed on the front panel.

- To pause recording -

- Press the **REC PAUSE** button to pause a recording in progress.
- Press the **REC PAUSE** button again during pause to resume recording.
- You can switch channels by pressing the **CH (⌄ ⌄)** buttons while recording pauses.

- To stop recording -

Press the **STOP (⊙)** button to stop or finish a recording in progress.
- When using DVD-RAM/-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

Recording

Copying from a Camcorder

You may control the Camcorder using the IEEE1394 (DV) interface.

1 Connect the DV output jack of your camcorder to the DV input jack on the front of your HDD & DVD RECORDER using a DV cable.

2 Press the **HDD** or **DVD** button.
If you select DVD, press the **OPEN/CLOSE** button and place a recordable disc on the disc tray. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display.

3 Press the **REC MODE** button repeatedly to select the recording speed(quality).

$$SP \rightarrow LP \rightarrow EP \rightarrow XP$$

4 Press the **INPUT** button to select **DV**.
If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.

5 Select the Play (▶) icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
You can press the **PLAY (⊚)** button of the remote control to play the camcorder.

6 To start recording, use the ◄ ► buttons to select Record (●) icon in the top side of the screen, then press the **ENTER** button.
You can press the **REC** button of the remote control to start recording. To display playback related icons on the screen, press any direction button on the remote control.

- To stop recording -

Press the **STOP (⊙)** button to stop or finish a recording in progress.
· When using DVD-RAM/-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed

Recording

English **- 83**

Making a One Touch Recording (OTR)

You can set the HDD & DVD RECORDER to record in 30-minute increments up to 8 hours by pressing the **REC** button.
This function does not operate when making a Timer Record in TV Guide mode.

HDD | DVD-RAM | DVD-RW | DVD-R

1 Press the **HDD** or **DVD** button.
If you select DVD, press the **OPEN/CLOSE** button and place a recordable disc on the disc tray. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display.

2 If you want to record a TV channel, press the **CH (⊙⊙)** buttons or number buttons to select a desired channel. If you want to record through a connected external component, press the **INPUT** button to select an appropriate external input (AV 1, AV 2, DV or CH 01).

3 Press the **REC** button to start recording.

● Recording : CH 11 [SAP]

4 Press the **REC** button repeatedly to adjust the desired recording time.

┌→ **0:30 → 1:00 → ... 8:00 → Off** ┐

⊟ OTR Mode   0:30

✎ **NOTE** ■ The timer counter decreases by the minute from 8:00 to 0:00, then the HDD & DVD RECORDER stops recording.

- To stop recording -

Press the **STOP (⊙)** button. The message "Do you want to stop recording?" is displayed.
• Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button.
• Or press the **STOP (⊙)** button again.

About INFO button

During recording, press the **INFO** button once, the system information screen appears.: Displays Active Status, Background Status, and Main Screen information.

HDD	System Info
Active status	Record XP
Background Status	– –
Screen	Recording:CH11 [SAP]
JAN/01/2005 (SAT)	AM 12:00

Pressing the **INFO** button twice, Disc information screen appears.: Displays Total numbers of Titles and Playlists, Recordable Time(Title), Available Space(Music/Photo).

HDD	Disc Info
Total Title	15
Total Playlist	2
Recordable Time : Title	17:12 XP
Available Space:Music/Photo	10033 MB
JAN/01/2005 (SAT)	AM 12:00

Pressing the **INFO** button three times: Current recording information screen appears.: Displays information of recording Name, Title, Created Time and Recording Time.

HDD	Recording Info
Name	JAN/01/2005 12:00 AM
	CH 11
Recording Title	4
Created Time	JAN/01/2005 12:00 AM
Recording Time	00:13:27
JAN/01/2005 (SAT)	AM 12:00

Chasing Play

You can play back from the beginning of the program you are currently recording.

HDD

While Recording

1 Press the **PLAY (⊙)** button.
It plays back the title that you are currently recording from the beginning.
Playback is not available for 10 seconds from the start of recording.
You can use the **SKIP (⊛ ⊛)** and other playback-related buttons to view the previous recorded list.

Using the TITLE LIST button

1 With the unit in recording mode, press the **TITLE LIST** button.
The Title List screen is displayed.
Press the **▲▼/SKIP (⊛ ⊛)** buttons to select the recording title list.

❖ Title List			
📼 HDD	No.	Title	Length
	008	JAN/18/2005 02:15A	00:10:21
	009	JAN/19/2005 14:15A	00:40:03
	010	JAN/20/2005 16:05A	00:40:15
	011	JAN/25/2005 17:00A	00:30:16
☐ RECORDING...	012	RECORDING...	00:00:00
🕐 JAN/19/2005 12:15 AM			
SP 🔒 V-Mode Compatibility		2/2Page	
✣ MOVE ☞ SELECT ↻ RETURN ⫿ EXIT			

✎
NOTE
■ This feature is only available in HDD mode.

2 Press the **ENTER** or **PLAY (⊙)** button.
It plays back the title that you are currently recording from the beginning.
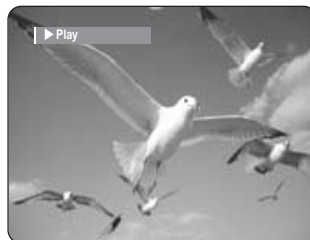
- Stopping Playback / Recording -

1 Press the **STOP (⊙)** button. Playback screen disappears and the recording in progress screen appears.

2 Pressing the **STOP (⊙)** button once more will stop the recording.

✎
NOTE
■ No sound is heard during search mode.
■ DVD disc playback is available during HDD recording. However, JPEG and MP3 files in the disc cannot be played back.
■ HDD playback is available during DVD recording. However, JPEG and MP3 files in the HDD cannot be played back.

Recording

Simultaneous Recording and Playback

You can watching the previous title list while recording a program.

HDD

Using the TITLE LIST button

1 With the unit in recording mode, press the **TITLE LIST** button.
The Title List screen is displayed.

❖ Title List			
🖴 HDD	No.	Title	Length
	008	JAN/18/2005 02:15A	00:10:21
	009	JAN/19/2005 14:15A	00:40:03
	010	JAN/20/2005 16:05A	00:40:15
	011	JAN/25/2005 17:00A	00:30:16
📺 JAN/18/2005 12:15 AM CH11	012	RECORDING...	00:00:00
🕐 JAN/18/2005 12:15 AM			
SP 🔒		2/2Page	
⬍ MOVE	☞ SELECT	↻ RETURN	⏻ EXIT

2 Press the ▲▼/ SKIP (⏮ ⏭) buttons to select the title you want to play, **ENTER** or **PLAY (▷)** button.
Selected title list will be played back.

▶ Play

- Stopping Playback / Recording -

1 Press the **STOP (◉)** button. Playback screen disappears and the recording in progress screen appears.

2 Pressing the **STOP (◉)** button once more will stop the recording.

✎
NOTE
- No sound is heard during search mode.
- This function is not available while timer recording is active.

Recording

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Editing

This section introduces basic editing functions on a Disc/HDD.

・**Title List**

Title List is a list of previously recorded programs. If a title is deleted, that title cannot be played again.

・**Play List**

This refers to a list of user-selected titles. When one playlist is played,only the scene selected by the user will play and then stop.
Even if the playlist is deleted, the original recording will remain. (VR mode only)

Recording or editing might not be completed if an error, such as a sudden power failure occurs. Please be aware that a material that has been damaged is unable to be retrieved to its original content.

Editing

English **- 87**

Basic Editing (Title List)

Renaming(Labeling) a Title

Follow these instructions to rename a title list entry, i.e., to edit the title of a recorded program.

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.
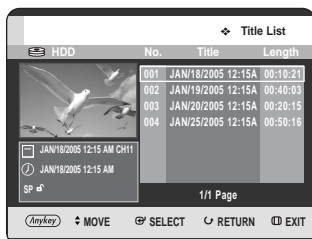
Using the MENU button.

· With the unit in Stop mode/Playback mode, press the **MENU** button.
· Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

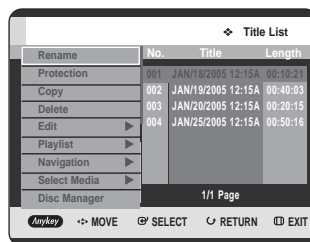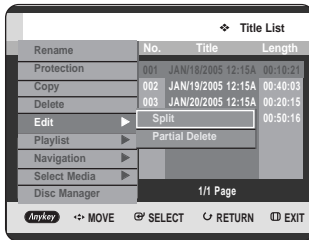**2** Press the ▲▼ buttons to select an entry you want to rename from the Title List, then press the **ANYKEY** button.
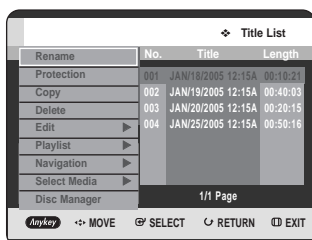
3 Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ▶ button.
The Rename screen is displayed.
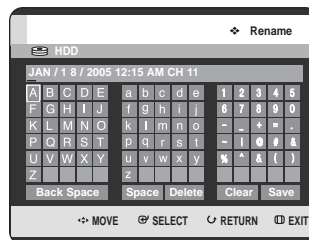
4 Select the desired characters using the ▲▼ ◄ ► buttons, press the **ENTER** button.
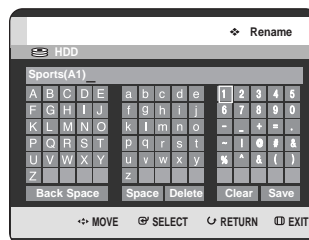
· **Back Space:** Deletes and moves the cursor backwards by one position. (Equivalent to the **CANCEL** button)
· **Space:** Enters a blank and moves the cursor one forward (to the right).
· **Delete:** Deletes the character at the cursor position.
· **Clear:** Deletes all the character inputs.
· **Save:** Registers the character inputs.

5 Press the ▲▼ ◄ ► buttons to select **Save**, and then press the **ENTER** button.
The changed title name is displayed on the title item of the selected entry.
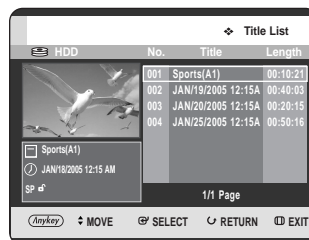
Locking (Protecting) a Title

Follow these instructions to lock a title to protect it from accidental deletion.

HDD   DVD-RAM   DVD-RW   DVD-R

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button .
The Title List screen is displayed.

```
                                ❖ Title List
💾 HDD               No.      Title          Length
                    001  JAN/18/2005 12:15A  00:10:21
                    002  JAN/19/2005 12:15A  00:40:03
                    003  JAN/20/2005 12:15A  00:20:15
                    004  JAN/25/2005 12:15A  00:50:16
📼 JAN/18/2005 12:15 AM CH11
🕐 JAN/18/2005 12:15 AM
SP 🔓                        1/1 Page
Anykey    ♦ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```
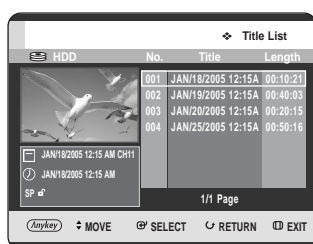
Using the MENU button.

· With the unit in Stop mode/Playback mode, press the **MENU** button.

· Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button.

2 Press the ▲▼ buttons to select an entry you want to protect from the Title List, then press the **ANYKEY** button.
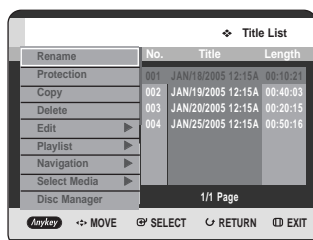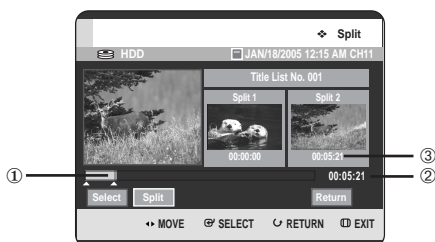
```
                                ❖ Title List
Rename          No.      Title          Length
Protection      001  JAN/18/2005 12:15A  00:10:21
Copy            002  JAN/19/2005 12:15A  00:40:03
Delete          003  JAN/20/2005 12:15A  00:20:15
Edit        ►   004  JAN/25/2005 12:15A  00:50:16
Playlist    ►
Navigation  ►
Select Media ►
Disc Manager                 1/1 Page
Anykey  ↔ MOVE  ☞ SELECT  ↺ RETURN  ⏻ EXIT
```

3 Press the ▲▼ buttons to select **Protection**, then press the **ENTER** or ► button.

```
                                ❖ Title List
💾 HDD

                        Title Protection:

📼 JAN/18/2005 12:15 AM CH11      On      Off
🕐 JAN/18/2005 12:15 AM
SP 🔓
        ↔ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```

4 Press the ◄ ► buttons to select **On**, then press the **ENTER** button. The key icon on the information window for the selected entry changes to the locked status. (🔓 → 🔒)

```
                                ❖ Title List
💾 HDD               No.      Title          Length
                    001  JAN/18/2005 12:15A  00:10:21
                    002  JAN/19/2005 12:15A  00:40:03
                    003  JAN/20/2005 12:15A  00:20:15
                    004  JAN/25/2005 12:15A  00:50:16
📼 JAN/18/2005 12:15 AM CH11
🕐 JAN/18/2005 12:15 AM
SP 🔒                        1/1 Page
Anykey    ♦ MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
```

Editing

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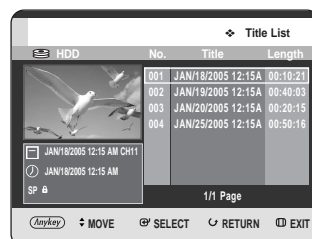
Deleting a Title

Follow these instructions to delete an entry from the Title List.


Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.
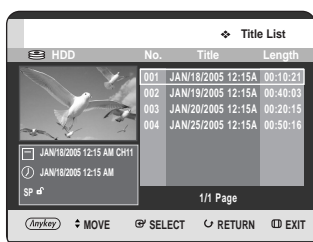
Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

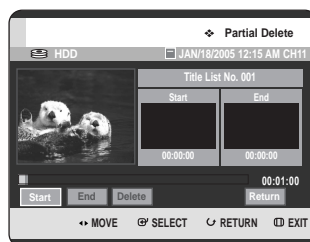**2** Press the ▲▼ buttons to select an entry you want to delete in the Title List, then press the **ANYKEY** button.
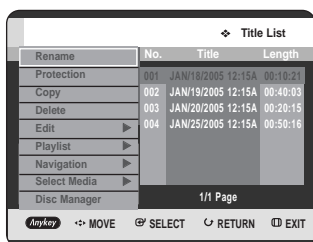
3 Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ▶ button.

- The message may be different depending on the type of disc. You will be prompted with the confirmation message. HDD, DVD-RAM(VR mode), DVD-RW(VR mode): If a Playlist is present, the message "Do you want to delete? (Related playlists may be deleted.)" is displayed. DVD-RW(Video mode)/-R: If a playlist is not present, the message "Do you want to delete?" is displayed.

4 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.

Editing
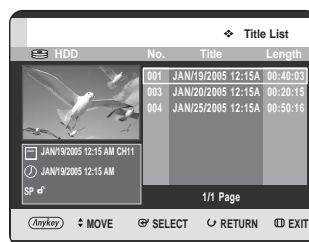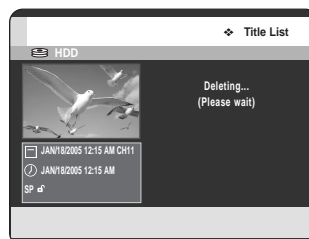
Splitting a Section of a Title (Split)

Follow these instructions to split a section of a Title List entry into two titles.

HDD

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.

		❖ Title List	
HDD	**No.**	**Title**	**Length**
	001	JAN/18/2005 12:15A	00:10:21
	002	JAN/19/2005 12:15A	00:40:03
	003	JAN/20/2005 12:15A	00:20:15
	004	JAN/25/2005 12:15A	00:50:16
JAN/18/2005 12:15 AM CH11			
JAN/18/2005 12:15 AM			
SP		1/1 Page	
Anykey ⬍ MOVE	☞ SELECT	↺ RETURN	⫿ EXIT
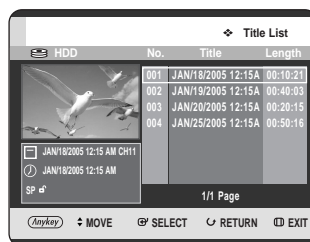
Using the MENU button.

· With the unit in Stop mode/Playback mode, press the **MENU** button.

· Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

2 Press the ▲▼ buttons to select an entry you want to Split from the Title List, then press the **ANYKEY** button.

		❖ Title List	
Rename	**No.**	**Title**	**Length**
Protection	001	JAN/18/2005 12:15A	00:10:21
Copy	002	JAN/19/2005 12:15A	00:40:03
Delete	003	JAN/20/2005 12:15A	00:20:15
Edit ▶	004	JAN/25/2005 12:15A	00:50:16
Playlist ▶			
Navigation ▶			
Select Media ▶			
Disc Manager		1/1 Page	
Anykey ⬦ MOVE	☞ SELECT	↺ RETURN	⫿ EXIT

Editing

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3 Press the ▲▼ buttons to select **Edit**, then press the
ENTER or ▶ button.


```
                                ❖  Title List
  Rename        No.    Title          Length
  Protection    001  JAN/18/2005 12:15A  00:10:21
  Copy          002  JAN/19/2005 12:15A  00:40:03
  Delete        003  JAN/20/2005 12:15A  00:20:15
  Edit      ▶     Split            00:50:16
  Playlist  ▶   Partial Delete
  Navigation ▶
  Select Media ▶
  Disc Manager         1/1 Page

  Anykey  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⓪ EXIT
```

4 Press the ▲▼ buttons to select **Split**, then press the
ENTER or ▶ button.


```
                                ❖  Split
  ☷ HDD              ☐ JAN/18/2005 12:15 AM CH11
                        Title List No. 001
                      Split 1       Split 2

                      00:00:00      00:00:00
  ☐                              00:00:00
  Select  Split                    Return

  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⓪ EXIT
```

5 Using the playback-related buttons (**PLAY(⊙)**,
SEARCH (⊙ ⊙)), move to a point for
splitting and press the **ENTER** button.
If it is not the point where you want to split, press the
RETURN button to cancel the selection. Using the
playback-related buttons, move to a point to split and
press the **ENTER** button.


```
                                ❖  Split
  ☷ HDD              ☐ JAN/18/2005 12:15 AM CH11
                        Title List No. 001
                      Split 1       Split 2

                      00:00:00      00:05:21      ③
①                              00:05:21          ②
  Select  Split                    Return

  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⓪ EXIT
```

① First split interval
② Current playtime
③ Start time of the second split and its screen

6 Press the **ENTER** button to select **Split**.
The message "This title cannot be recovered after
splitting. Do you want to split?" is displayed.


```
                                ❖  Split
  ☷ HDD              ☐ JAN/18/2005 12:15 AM CH11

    This title cannot be recovered after spliting
            Do you want to split?

            Yes        No

  S
            ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⓪ EXIT
```
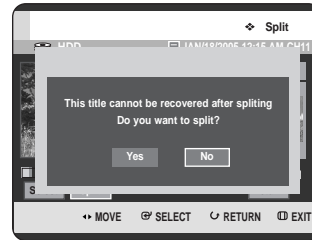
7 Press the ◄ ► buttons to select **Yes**, then press the
ENTER button.
The split title is divided into two, and the following titles
will be shifted down by one.


```
                                ❖  Title List
  ☷ HDD              No.    Title          Length
                      001  JAN/18/2005 12:15A  00:05:21
                      001  JAN/18/2005 12:15A  00:05:00
                      002  JAN/19/2005 12:15A  00:40:03
                      003  JAN/20/2005 12:15A  00:20:15
                      004  JAN/25/2005 12:15A  00:50:16
  ☐ JAN/18/2005 12:15 AM CH11
  ⏱ JAN/18/2005 12:15 AM
  SP ☌                         1/1 Page

  Anykey  ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⓪ EXIT
```

Editing
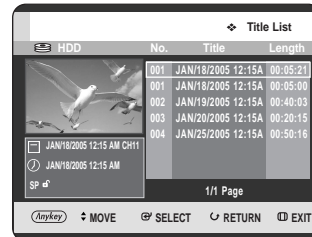
Deleting a Section of a Title (Partial Delete)

Follow these instructions to delete a section of a Title List entry.

(VR mode)

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.
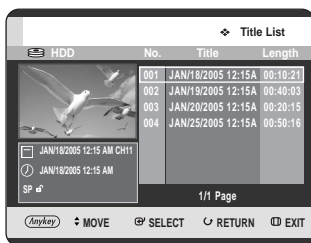
Using the MENU button.

· With the unit in Stop mode/Playback mode, press the **MENU** button.

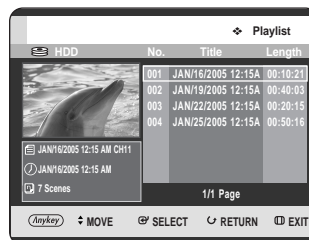· Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.

2 Press the ▲▼ buttons to select an entry you want to edit from the Title List, then press the **ANYKEY** button.
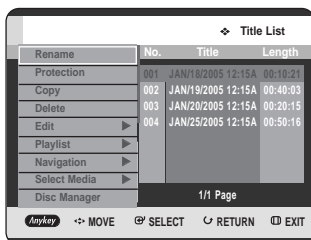
· When using a DVD-RAM/-RW(VR) disc, you can select Partial Delete directly by pressing the ANYKEY button.
(Then go to step 5)

3 Press the ▲▼ buttons to select **Edit**, then press the **ENTER** or ▶ button.
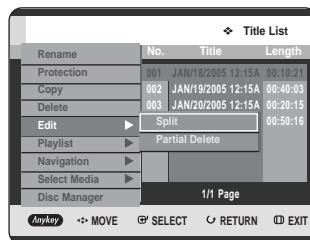
4 Press the ▲▼ buttons to select **Partial Delete**, then press the **ENTER** or ▶ button.

5 Press the **ENTER** button at the starting point.
The image and starting point time are displayed in the section deletion starting point window.

Editing

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Edit Title List Screen Elements
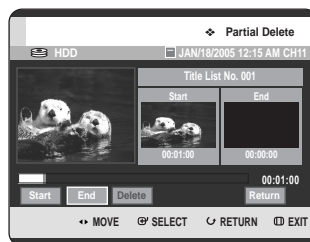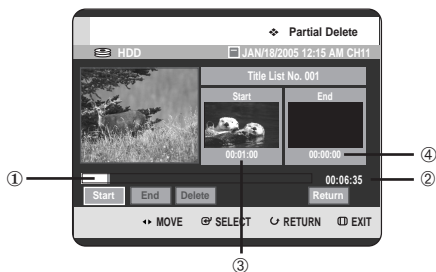
① Playback bar
② Playtime
③ Section deletion starting point window and time
④ Section deletion end point window and time
   • Select the start and end points of the section you
     want to delete using the playback related buttons.
   • Playback related buttons :
     (**PLAY(⊙)**, **SEARCH (⊙ ⊙)**)

6 Press the **ENTER** button at the end point.
The image and end point time are displayed in the
Section deletion ending point window.
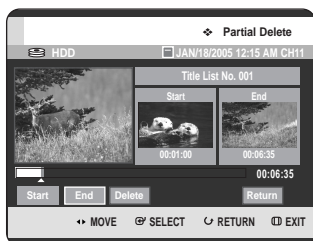
7 Press the ◄ ► buttons to select **Delete**, then press
the **ENTER** button.
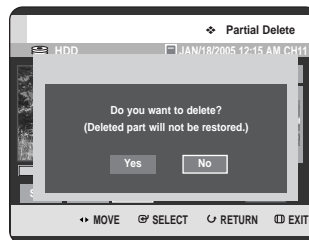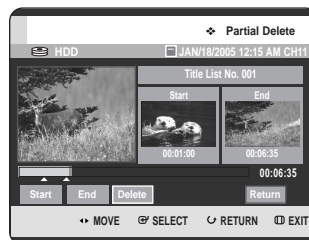
8 Press the ◄ ► buttons to select **Yes**, then press the
ENTER button. The selected section has been
deleted.

9 Press the ◄ ► buttons to select **Return**, then press
the **ENTER** button to finish the operation.

NOTE

■ The length of the section to be deleted
must be at least 5 seconds long.

■ If the length of the section to be deleted is
less than 5 seconds, you will be prompted
with the message "The range is too
short.".

■ If the end time precedes the starting time,
you will be prompted with the message
"End point cannot be marked earlier than
start point".

■ The section cannot be deleted when it
includes a still picture.

■ Press the **MENU** button after the operation has
finished.
The Title List screen will disappear.

Editing

Advanced Editing (Playlist)

Creating a Playlist

Follow these instructions to create a new playlist entry from a recorded title.
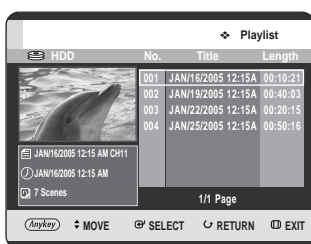

(VR mode)

Using the TITLE LIST button

1 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
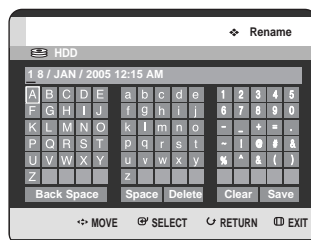The Title List screen is displayed.
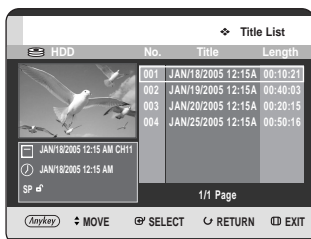
Using the MENU button.

・ With the unit in Stop mode/Playback mode, press the **MENU** button.

・ Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button.

2 Press the **ANYKEY** button.
Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.
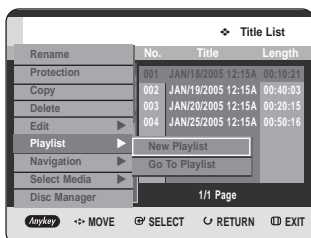
3 Press the ▲▼ buttons to select **New Playlist**, then press the **ENTER** or ► button.
The Make Playlist screen is displayed.
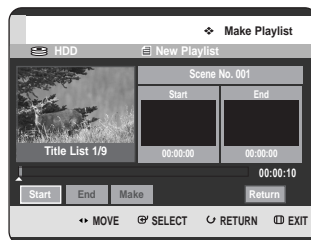
4 Press the **ENTER** button at the start point.
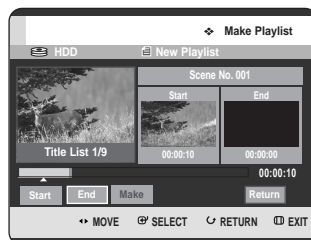
・ The image and time at the start point are displayed on the Start window.
・ The yellow-colored selection bar moves to the End item.
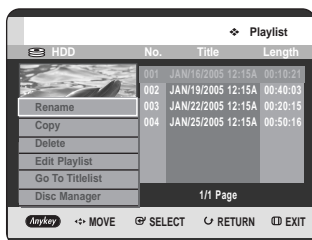・ Select the starting point of the section from which you want to create a new scene using the playback related buttons (**PLAY(⊙)**, **SEARCH (⊙ ⊙)**).

5 Press the **ENTER** button at the end point.
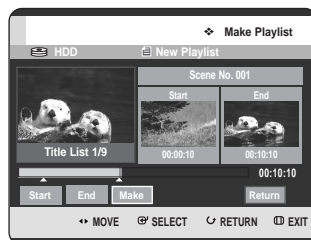
・ The image and end point time are displayed in the End window.
・ The yellow-colored selection bar moves to the Make item.

Editing

English **- 95**

6 Press the ◄ ► buttons to select **Make**,
then press the **ENTER** button.
- To make a scene the playlist.
  A new Make scene screen is displayed.
  Repeat steps 3~6 to make a new scene for the playlist.
  A new scene will be added to the current playlist.
  You can check and see all the scenes on the Edit
  playlist screen. (See page 98)
- To make a new playlist.
  Repeat steps 1~6 if you want to make a new playlist.

7 Press the ◄ ► button to select **Return**,
then press the **ENTER** button to finish the operation.

✎
NOTE
- You can create up to 99 playlist entries.
- Depending on the kind of disc, the displayed screen may have a slight difference.
- Pressing the **SKIP** button will skip to the next title.

Playing Entries in the Playlist

Follow these instructions to play the playlist entries.

(VR mode)

Using the PLAY LIST button

1 With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
The Playlist screen is displayed.

Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button.
  The Title List screen is displayed.
- Press the **ANYKEY** button.
- Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.
- Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ► button.

2 Press the ▲▼ buttons to select the playlist you want to play, then press the **ENTER** or **PLAY (⊙)** button.

3 Press the **STOP (⊙)** button to stop playing.
The screen returns to the Playlist screen.

Renaming a Playlist Entry

Follow these instructions to rename a playlist entry, i.e. to edit the title of a playlist entry.

HDD DVD-RAM DVD-RW

(VR mode)

Using the PLAY LIST button

1 With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
The Edit Playlist screen is displayed.

Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button. The Title List screen is displayed.
- Press the **ANYKEY** button.
- Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.
- Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ► button.

2 Press the ▲▼ buttons to select the title you want to Rename from the Playlist, then press the **ANYKEY** button.
ANYKEY menu is displayed : **Rename**, **Copy**, **Delete**, **Edit Playlist**, **Go To Titlelist**, **Disc Manager**
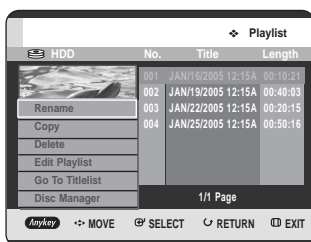
3 Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ► button.
The Rename screen is displayed.

4 Select the desired characters using the ▲▼ ◄ ► buttons, then press the **ENTER** button.
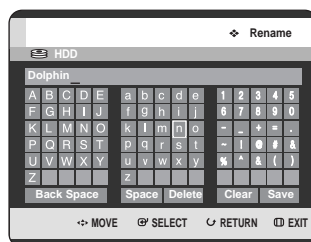
- This function is the same as the Rename function in Renaming the Title. (See page 88)
- The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the **INFO** button.

5 Press the ▲▼ ◄ ► buttons to select **Save**, then press the **ENTER** button.
The changed title is displayed in the title field of the selected playlist entry.

Editing

English **- 97**
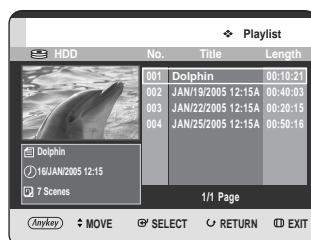
Editing a Scene for the Playlist

Follow these instructions to edit scenes for a playlist.

HDD   DVD-RAM   DVD-RW

(VR mode)

Using the PLAY LIST button

1 With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
The Edit Playlist screen is displayed.

Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button.
  The Title List screen is displayed.
- Press the **ANYKEY** button.
- Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ▶ button.
- Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ▶ button.

2 Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the **ANYKEY** button.
The Edit Playlist menu is displayed: **Rename**, **Copy**, **Delete**, **Edit Playlist**, **Go To Titlelist**, **Disc Manager**.

3 Press the ▲▼ buttons to select **Edit Playlist**, then press the **ENTER** or ▶ button.
The Edit Playlist Scene screen is displayed.
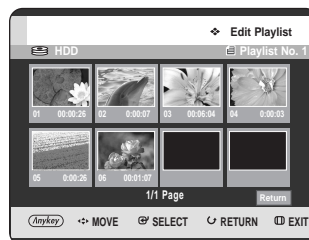
Playing a Selected Scene

4 Press the ▲▼◄ ► buttons to select the scene you want to play, then press the **ANYKEY** button.
The playlist entry to be played is selected.
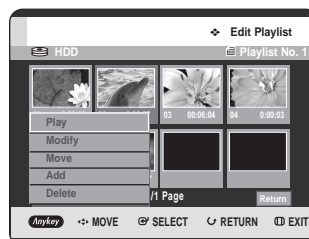
5 Press the ▲▼ buttons to select **Play**, then press the **ENTER** or ▶ button.
The selected scene is played.
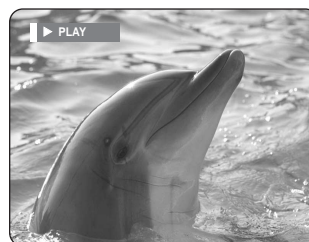
- To stop scene play, press the **STOP ( )** button.

Editing

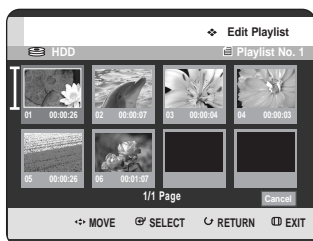## Modifying a Scene (Replacing a Scene)

To setup, follow steps 1 to 3 on page 98.

4 Press the ▲▼ ◄ ► buttons to select the scene you
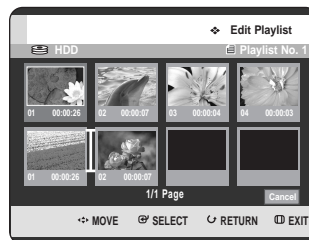want to modify, then press the **ANYKEY** button.

```
                        ❖  Edit Playlist
  📼 HDD                          📄 Playlist No. 1

                              ▶
                        03  00:06:04   04  0:00:03
     Play
     Modify
     Move
     Add
     Delete              /1 Page              Return

   Anykey  ◄►  MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
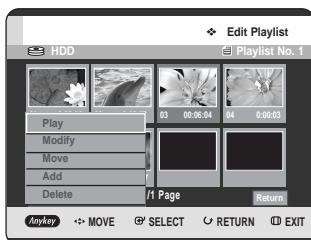
5 Press the ▲▼ buttons to select **Modify**, then press the
ENTER or ► button.
The Modify Scene screen is displayed.

```
                        ❖  Modify Scene
  📼 HDD                          📄 New Playlist
                           Scene No. 001
                         Start        End

   Title List : 1/7      00:00:00     00:00:00
                                       00:00:20
     Start  End  Change                  Cancel
           ◄►  MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
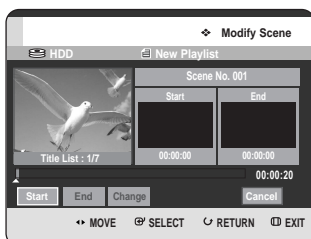
6 Press the **ENTER** button at the start point of the scene.

```
                        ❖  Modify Scene
  📼 HDD                          📄 New Playlist
                           Scene No. 001
                         Start        End

   Title List : 1/7      00:00:20     00:00:00
                                       00:00:20
     Start  End  Change                  Cancel
           ◄►  MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

· The image and starting point time are
displayed on the Start window.
· Select the starting or ending point of the
section you want to modify using the playback
related buttons (**PLAY(⊙)**, **SEARCH (⊙ ⊙)**).

7 Press the **ENTER** button at the end point of the scene.

```
                        ❖  Modify Scene
  📼 HDD                          📄 New Playlist
                           Scene No. 001
                         Start        End

   Title List : 1/7      00:00:20     00:00:30
                                       00:00:30
     Start  End  Change                  Cancel
           ◄►  MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
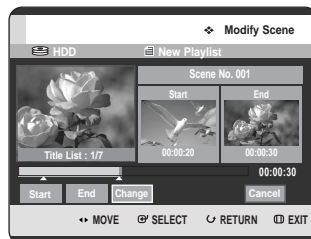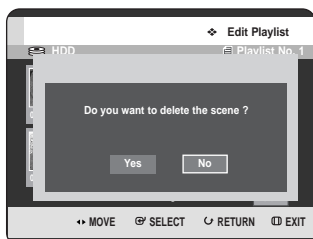
· The image and ending point time are displayed in the
End window.

8 Press the ◄ ► buttons to select **Change**, then press
the **ENTER** button.

```
                        ❖  Edit Playlist
  📼 HDD                          📄 Playlist No. 1

   01  0:00:26  02  0:00:07  03  00:00:04  04  0:00:03

   05  0:00:26  06  00:01:07
                              1/1 Page           Return
   Anykey  ◄►  MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
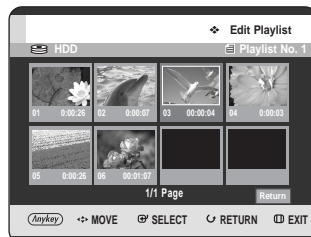
· The scene you want to modify is changed with
the selected section.
· The yellow-colored selection bar moves to the
Change item.

Editing

English **- 99**

To setup, follow steps 1 to 3 on page 98.

4 Press the ▲▼ ◄ ► buttons to select the scene you want to move (change the position), then press the **ANYKEY** button.

```
                                    ❖ Edit Playlist
   📼 HDD                           🗐 Playlist No. 1



                            03  00:06:04    04   0:00:03
   Play
   Modify
   Move
   Add
   Delete                           1/1 Page            Return
   Anykey  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⅅ EXIT
```
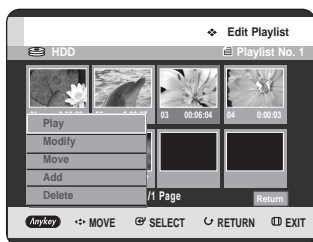
5 Press the ▲▼ buttons to select **Move**, then press the **ENTER** or ► button.

```
                                    ❖ Edit Playlist
   📼 HDD                           🗐 Playlist No. 1


   01  00:00:26  02  00:00:07  03  00:00:04  04  00:00:03


   05  00:00:26  06  00:01:07
                                    1/1 Page          Cancel
            ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⅅ EXIT
```

· A yellow selection window is displayed on the scene to be moved.

6 Press the ▲▼ ◄ ► buttons to select the position to which you want to move the selected scene, then select the **ENTER** button.

```
                                    ❖ Edit Playlist
   📼 HDD                           🗐 Playlist No. 1

   01  00:00:26  02  00:00:07  03  00:00:04  04  00:00:03


   01  00:00:26  02  00:00:07
                                    1/1 Page          Cancel
            ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⅅ EXIT
```

· The selected scene is moved to the selected position.

```
                                    ❖ Edit Playlist
   📼 HDD                           🗐 Playlist No. 1

   01  00:01:07  02  00:00:07  03  00:00:04  04  00:00:03


   05  00:00:26  06  00:00:26
                                    1/1 Page          Return
   Anykey  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⅅ EXIT
```
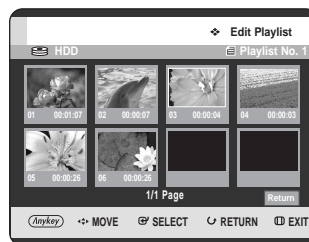
✎
NOTE
■ Depending on the disc type, the displayed screen may appear slightly different.

Adding a Scene

To setup, follow steps 1 to 3 on page 98.

4 Press the ▲▼ ◄ ► buttons to select the scene that will have a new scene inserted before it, then press the **ANYKEY** button.
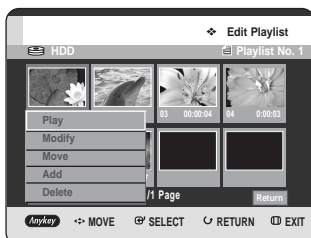
5 Press the ▲▼ buttons to select **Add**, then press the **ENTER** or ► button.
The Add Scene screen is displayed.
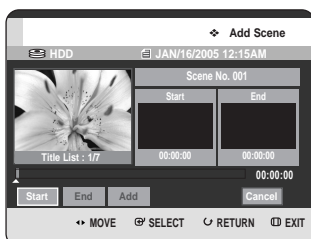
6 Press the **ENTER** button at the starting point of the scene.
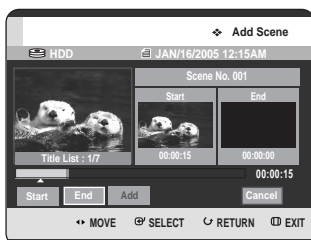
- The image and starting point time are displayed on the Start window.
- Select the starting or ending point of the section you want to modify using the playback related buttons (**PLAY( )**, **SKIP ( )**).

7 Press the **ENTER** button at the end point of the scene.
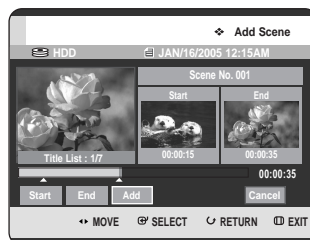
- The image and end point time are displayed in the End window.
- To cancel, press the ◄ ► buttons to select **Cancel**, then press the **ENTER** button.

8 Press the ◄ ► buttons to select **Add**, then press the **ENTER** button.
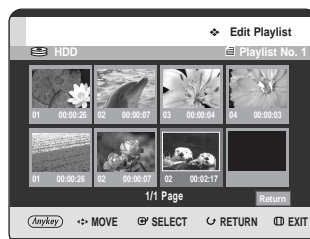
- The section you want to add is inserted prior to the scene selected in step 4.

Editing

English **- 101**

To setup, follow steps 1 to 3 on page 98.

4 Press the ▲▼ ◄ ► buttons to select the scene you want to delete, then press the **ANYKEY** button.
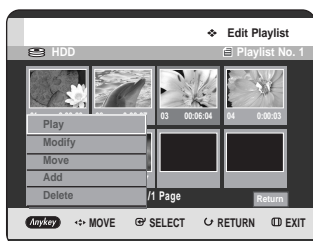
```
                              ❖ Edit Playlist
  HDD                         Playlist No. 1

  Play
  Modify          03  00:06:04   64   0:00:03
  Move
  Add
  Delete          /1 Page              Return

  Anykey  ⋯ MOVE    ☞ SELECT   ↺ RETURN   ⫾ EXIT
```

5 Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ► button.

```
                              ❖ Edit Playlist
  HDD                         Playlist No. 1

     Do you want to delete the scene ?


           Yes         No


         ⋯ MOVE    ☞ SELECT   ↺ RETURN   ⫾ EXIT
```

• The message "Do you want to delete the scene ?" is displayed.

6 Press the ◄ ► buttons to select **Yes**, then press the **ENTER** to delete the selected scene.

Deleting a Playlist Entry from the Playlist

Using the PLAY LIST button

1 With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
The Edit Playlist screen is displayed.

```
                                    ❖ Playlist
  HDD           No.    Title         Length

                001  JAN/16/2005 12:15A  00:10:21
                002  JAN/19/2005 12:15A  00:40:03
                003  JAN/22/2005 12:15A  00:20:15
                004  JAN/25/2005 12:15A  00:50:16

  JAN/16/2005 12:15 AM CH11
  JAN/16/2005 12:15 AM
  7 Scenes                        1/1 Page

  Anykey  ⇕ MOVE    ☞ SELECT   ↺ RETURN   ⫾ EXIT
```
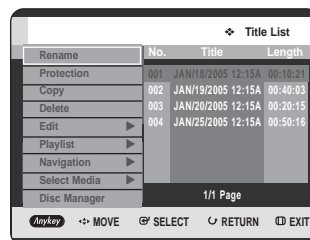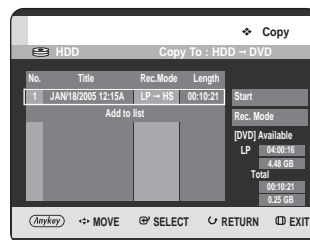
Using the MENU button.

• With the unit in Stop mode/Playback mode, press the **MENU** button.

• Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button.
The Title List screen is displayed.

• Press the **ANYKEY** button.

• Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.

• Press the ▲▼ buttons to select **Go To Playlist**, then press the **ENTER** or ► button.

2 Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the **ANYKEY** button.
The Edit Playlist menu is displayed:**Rename**, **Copy**, **Delete**, **Edit Playlist**, **Go To Titlelist**, **Disc Manager**.

```
                                    ❖ Playlist
  HDD           No.    Title         Length

                001  JAN/16/2005 12:15A  00:10:21
                002  JAN/19/2005 12:15A  00:40:03
  Rename        003  JAN/22/2005 12:15A  00:20:15
  Copy          004  JAN/25/2005 12:15A  00:50:16
  Delete
  Edit Playlist
  Go to Titlelist
  Disc Manager                    1/1 Page

  Anykey  ⋯ MOVE    ☞ SELECT   ↺ RETURN   ⫾ EXIT
```

Editing

3 Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ▶ button.
- You will be prompted with the delete confirmation message "Do you want to delete?".

```
                                    ❖ Playlist
💾 HDD

          [image]
                      Do you want to delete?

📄 JAN/16/2005 12:15 AM CH11
🕐 JAN/16/2005 12:15 AM                 Yes      No
📷 7 Scenes

          ⟷ MOVE    ☞ SELECT   ↺ RETURN   ⫘ EXIT
```
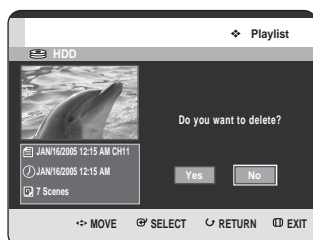
4 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.
You will be automatically returned to the Playlist screen after the delete operation has finished.

```
                                    ❖ Playlist
💾 HDD

          [image]
                          Deleting...
                         (Please wait)

📄 JAN/16/2005 12:15 AM CH11
🕐 JAN/16/2005 12:15 AM
📷 7 Scenes
```

```
                                    ❖ Playlist
💾 HDD       No.    Title            Length

          [image]  001  JAN/19/2005 12:15A  00:40:03
                   002  JAN/22/2005 12:15A  00:20:15
                   003  JAN/25/2005 12:15A  00:50:16

📄 JAN/19/2005 12:15 AM CH11
🕐 JAN/19/2005 12:15 AM                  1/1 Page
📷 7 Scenes

 Anykey  ⬍ MOVE   ☞ SELECT   ↺ RETURN   ⫘ EXIT
```
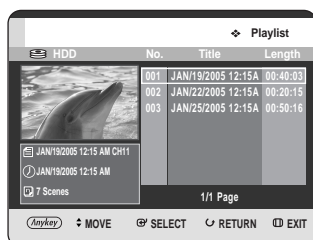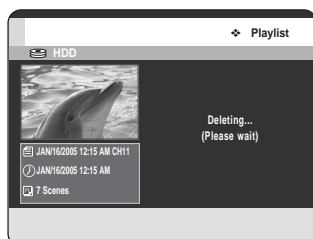
Copying from HDD to DVD

▌ About the Copy Screen

```
                                      ❖ Copy
💾 HDD              Copy To : HDD → DVD

① No.   Title       Rec.Mode   Length    Start          ⑤
② 1  JAN/01/2005 20:25A  SP → HS  00:01:40
                Add to list              Rec. Mode      ⑥
                                         [DVD] Available
③                                        SP   02:00:32   ⑦
④                                             4.48 GB
                                         Total
                                             00:01:40   ⑧
                                             0.05 GB
 Anykey  ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⫘ EXIT
```
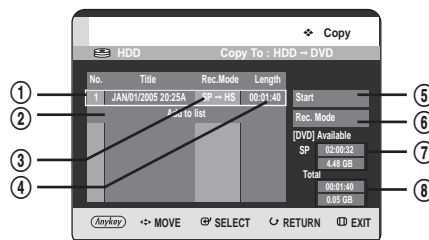
① Title to be copied
② Add titles to be copied (up to 7 titles can be copied at one time)
③ Recording mode for copying

- HS(high speed): you can copy more quickly than normal playback speed.
  For example, a one hour recording will be dubbed from the HDD to a DVD-RAM at the following times:

Rec. Speed	Time
XP → HS	About 32 min.
SP → HS	About 18 min.
LP → HS	About 10 min.
EP → HS	About 8 min.

✽ Note : The dubbing times are approximate and depend on the disc and data conditions.

XP/SP/LP/EP

- You can select the recording quality you want to dub to.
✽ You cannot dub a lower quality mode (i.e. EP) to a higher quality mode(i.e. XP)
④ Record time of title to be copied
⑤ Copy start button
⑥ Record mode setup button
⑦ Remaining time and space on the current disc in DVD Record mode
⑧ Total record time and space of selected titles for copying

Contents Copy Specifications

Contents	HDD → DVD
Recorded Video Title	Supported
Copy Protected Title	Not supported
Copy Once Title	Move (Deletes the Title in the HDD after copying)

Once a "Copy Once program" has been recorded on a DVD disc, the disc cannot be copied to the HDD again.
However, if "Copy Once program" has been recorded on the HDD the title can be copied to DVD-RW(VR mode) or DVD-RAM.

✎ ■ Please be aware that Copy Protection may affect the number of times you can make a copy.
NOTE

Editing

Using the TITLE LIST button

1 Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.

2 Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display. Check that the disc has enough available space for the recording.

3 Select the HDD by pressing the **HDD** button on the front panel of the HDD & DVD RECORDER or on the remote control.

4 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.

```
                                    ❖ Title List
HDD              No.       Title          Length
                 001  JAN/18/2005 12:15A  00:10:21
                 002  JAN/19/2005 12:15A  00:40:03
                 003  JAN/20/2005 12:15A  00:20:15
                 004  JAN/25/2005 12:15A  00:50:16

 JAN/18/2005 12:15 AM CH11
 JAN/18/2005 12:15 AM
SP                                   1/1 Page
Anykey    ♦ MOVE   ☞ SELECT  ↻ RETURN  ⫿⊃ EXIT
```
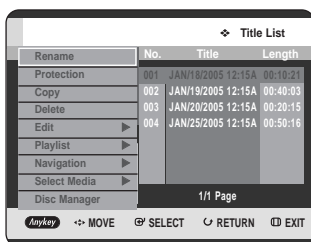
Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.

- Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ▶ button. The Title List screen is displayed.

5 Press the ▲▼ buttons to select the title you want to copy.
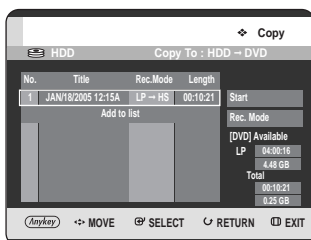
To move to other pages, press the **SKIP(⊖ ⊕)** buttons.

SKIP(⊖) : previous page of title list
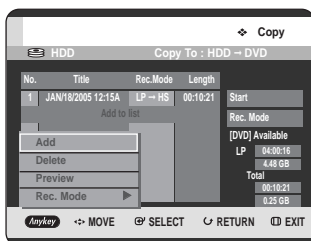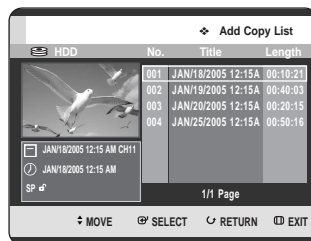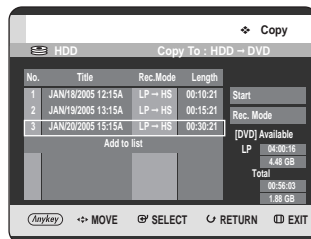
SKIP(⊕) : next page of title list

6 Press the **ANYKEY** button.

```
                                    ❖ Title List
Rename          No.       Title          Length
Protection      001  JAN/18/2005 12:15A  00:10:21
Copy            002  JAN/19/2005 12:15A  00:40:03
Delete          003  JAN/20/2005 12:15A  00:20:15
Edit        ▶   004  JAN/25/2005 12:15A  00:50:16
Playlist    ▶
Navigation  ▶
Select Media ▶
Disc Manager                         1/1 Page
Anykey    ♦ MOVE   ☞ SELECT  ↻ RETURN  ⫿⊃ EXIT
```

7 Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ▶ button.
The Copy screen is displayed.

```
                                      ❖ Copy
 HDD              Copy To : HDD → DVD
No.      Title        Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
              Add to list                   Rec. Mode
                                            [DVD] Available
                                            LP    04:00:16
                                                  4.48 GB
                                            Total
                                                  00:10:21
                                                  0.25 GB
Anykey   ♦ MOVE   ☞ SELECT  ↻ RETURN  ⫿⊃ EXIT
```

- If you want to change the record mode (select a different recording quality from the original) when copying, see page 106.

8 Press the **ENTER** or ▶ button to select **Start**, then press the **ENTER** button.

```
                                      ❖ Copy
 HDD              Copy To : HDD → DVD
No.      Title        Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
              Add to list                   Rec. Mode
                                            [DVD] Available
                                            LP    04:00:16
                                                  4.48 GB
                                            Total
                                                  00:10:21
                                                  0.25 GB
         ♦ MOVE   ☞ SELECT  ↻ RETURN  ⫿⊃ EXIT
```
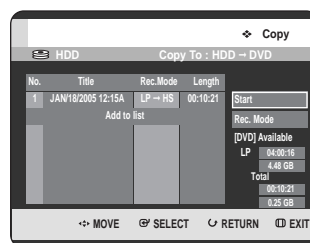
- About Using COPY button -

Press the ▲▼ buttons to select title you want to copy from the title list and then press the **COPY** button on the remote control. You can go to the copy screen.

- During Playback, you can also copy the title by pressing the **COPY** button.

Editing

- Copying a Title that has been edited once before -

9 The "Do you want to view screen of copying title?" message is displayed.
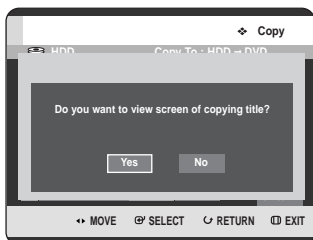
10 To copy a title while viewing the title on the copy screen, press the ◄ ► buttons to select **Yes**, then press the **ENTER** button.

- If **No** is selected, the title to be copied is not displayed on the screen, and copying begins while the currently broadcasting program is displayed on the screen.
- To cancel the copying in progress, press the **CANCEL** button.

- Copying an Unedited title -

9⁻¹ The "Do you want to use high speed copy mode?" message is displayed.

NOTE
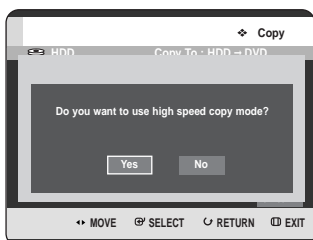
- High speed copy : This means that you can transfer without having to worry about the quality getting worse with each copy 'generation'. It also means that copying can be carried out at the maximum speed possible.

10⁻¹ To begin high speed copy, press the ◄ ► buttons to select **Yes**, then press the **ENTER** button. High speed copy begins. The title to be copied is not played back, while the currently broadcasting program is displayed on the screen.
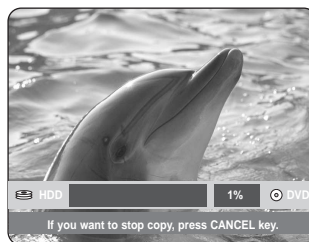
- If **No** is selected, the title to be copied is displayed at its playback speed while copying.
- To cancel the copying in progress, press the **CANCEL** button.

11⁻¹ After a successful copy, "The title is successfully copied" message is displayed.

Editing
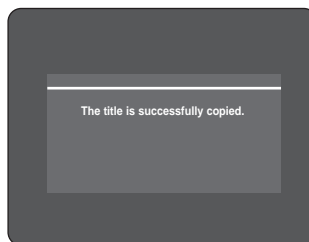
▌ Changing the Record Mode

To setup, follow steps 1 to 7 on page 104.

8 Press the ► and ▼ buttons to select **Rec. Mode**, then press the **ENTER** button.

```
                              ❖ Copy
  📼 HDD          Copy To : HDD → DVD
  No.   Title          Rec.Mode   Length
  1   JAN/18/2005 12:15A   LP → HS   00:10:21   Start
              Add to list                  Rec. Mode
                                             XP
                                             SP
                                             LP
                                             EP
                                           √ High Speed
       ◄► MOVE    ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
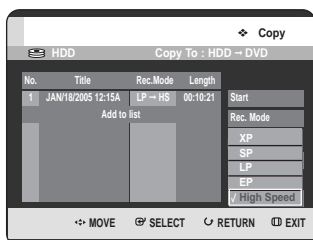
9 Press the ▲▼ buttons to select record mode you want to record, then press the **ENTER** button.

   • HS(High Speed) : Copies in the same record mode as HDD.
   • XP/SP/LP/EP : You cannot copy at a higher quality mode than original. If the same record mode is selected, the title is copied at high speed.

✎
NOTE
   ■ Using the same method, you can copy a Playlist.
   ■ High speed copying is not available for a title list that has been partially deleted.
   ■ During copying, timer recording is not available.
   ■ High speed copying is not available when:
      - Copying a title that can only be copied once
      - Copying a playlist
      - Copying a partially-deleted title
   ■ Regarding title lists that can be copied only once:
      - Only available for DVD discs that support CPRM.
      - If a playlist contains a scene that can only be copied once, it cannot be copied.
   ■ You cannot dub a lower quality mode (i.e. EP) to a higher quality mode(i.e. XP).

Copying Multiple Titles at One Time

🖐 **Using the TITLE LIST button**

1 Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.

2 Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display. Check that the disc has enough available space for the recording.

3 Select the HDD by pressing the **HDD** button on the front panel of the HDD & DVD RECORDER or on the remote control.

4 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.

```
                              ❖ Title List
  📼 HDD        No.     Title          Length
             001   JAN/18/2005 12:15A   00:10:21
             002   JAN/19/2005 12:15A   00:40:03
             003   JAN/20/2005 12:15A   00:20:15
             004   JAN/25/2005 12:15A   00:50:16
   🖼 JAN/18/2005 12:15 AM CH11
   🕐 JAN/18/2005 12:15 AM
   SP 🔒                              1/1 Page
  (Anykey)  ↕ MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
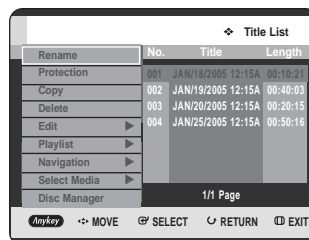
Using the MENU button.
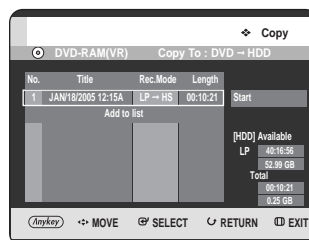
   • With the unit in Stop mode/Playback mode, press the **MENU** button.
   • Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button. The Title List screen is displayed.

5 Press the ▲▼ buttons to select one of the titles you want to copy.
To move to other pages, press the **SKIP (⏮ ⏭)** buttons.
SKIP(⏮) : previous page of title list
SKIP(⏭) : next page of title list

Editing

6 Press the **ANYKEY** button.

```
                                    ❖ Title List
 Rename              No.    Title           Length
 Protection         001   JAN/18/2005 12:15A  00:10:21
 Copy               002   JAN/19/2005 12:15A  00:40:03
 Delete             003   JAN/20/2005 12:15A  00:20:15
 Edit        ▶      004   JAN/25/2005 12:15A  00:50:16
 Playlist    ▶
 Navigation  ▶
 Select Media ▶
 Disc Manager              1/1 Page
 Anykey  ⋅⋅⋅ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

7 Press the ▲▼ buttons to select **Copy**, then press the
ENTER or ▶ button.
The Copy screen is displayed.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title      Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
            Add to list                    Rec. Mode
                                           [DVD] Available
                                           LP   04:00:16
                                                4.48 GB
                                           Total
                                                00:10:21
                                                0.25 GB
 Anykey  ⋅⋅⋅ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

8 Press the **ANYKEY** button.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title      Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
            Add to list                    Rec. Mode
                                           [DVD] Available
 Add                                       LP   04:00:16
 Delete                                         4.48 GB
 Preview                                   Total
 Rec. Mode  ▶                                   00:10:21
                                                0.25 GB
 Anykey  ⋅⋅⋅ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

9 Press the ▲▼ buttons to select **Add**, then press the
ENTER button.
The Add Copy List screen is displayed.
Press the ▲▼ buttons to select the title you want to
copy, then press the **ENTER** button.
Other method: Press the ▲▼ buttons to select **Add a
list**, then press the **ENTER** button.
Press the ▲▼ buttons to select a title you want to copy,
then press the **ENTER** button.

```
                                    ❖ Add Copy List
 ⊟ HDD              No.    Title           Length
                   001   JAN/18/2005 12:15A  00:10:21
                   002   JAN/19/2005 12:15A  00:40:03
                   003   JAN/20/2005 12:15A  00:20:15
                   004   JAN/25/2005 12:15A  00:50:16
 ⊟ JAN/18/2005 12:15 AM CH11
 ⏱ JAN/18/2005 12:15 AM
 SP 🔒                       1/1 Page
 ⬍ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

10 Repeat steps 8~9 to select an additional title you want
to copy.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title      Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
 2  JAN/19/2005 13:15A  LP → HS  00:15:21   Rec. Mode
 3  JAN/20/2005 15:15A  LP → HS  00:30:21
            Add to list                    [DVD] Available
                                           LP   04:00:16
                                                4.48 GB
                                           Total
                                                00:56:03
                                                1.88 GB
 Anykey  ⋅⋅⋅ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

11 Press the **ENTER** or ▶ buttons to select **Start**,
then press the **ENTER** button.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title      Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
 2  JAN/19/2005 13:15A  LP → HS  00:15:21   Rec. Mode
 3  JAN/20/2005 15:15A  LP → HS  00:30:21
            Add to list                    [DVD] Available
                                           LP   04:00:16
                                                4.48 GB
                                           Total
                                                00:56:03
                                                1.88 GB
 ⋅⋅⋅ MOVE  ☞ SELECT  ↻ RETURN  ▯ EXIT
```

The added title lists are copied into the copy list.
To cancel the copying in progress, press the **CANCEL**
button.

NOTE
- If copy list contains at least one title that
cannot be copied at high speed, it performs
step 9 described on page105.
Otherwise, it performs the step 9⁻¹ described
on page 105.

Deleting an Undesired Title from the Copy List

To setup, follow steps 1 to 7 on pages 105~106.

8 Press the ▲▼ buttons to select a title you want to delete from the copy screen.
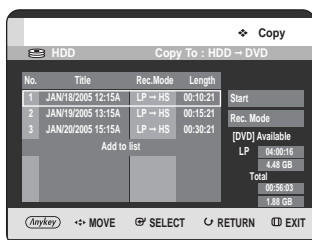
```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title          Rec.Mode   Length
  1   JAN/18/2005 12:15A   LP → HS   00:10:21  Start
  2   JAN/19/2005 13:15A   LP → HS   00:15:21  Rec. Mode
  3   JAN/20/2005 15:15A   LP → HS   00:30:21
              Add to list              [DVD] Available
                                       LP   04:00:16
                                            4.48 GB
                                       Total
                                            00:56:03
                                            1.88 GB
 (Anykey)  ⬩⬩ MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

9 Press the **ANYKEY** button. Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ▶ button. The message "Do you want to delete?" is displayed.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD

          Do you want to delete?

              Yes        No

        ⬩⬩ MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
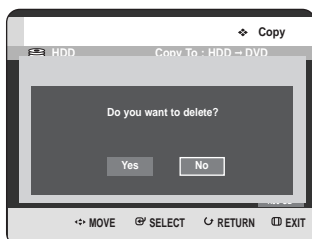
10 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.
The selected title is deleted.
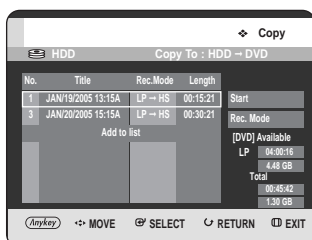
```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title          Rec.Mode   Length
  1   JAN/19/2005 13:15A   LP → HS   00:15:21  Start
  3   JAN/20/2005 15:15A   LP → HS   00:30:21  Rec. Mode
              Add to list              [DVD] Available
                                       LP   04:00:16
                                            4.48 GB
                                       Total
                                            00:45:42
                                            1.30 GB
 (Anykey)  ⬩⬩ MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

Previewing a Selected Title from the Copy List

To setup, follow steps 1 to 7 on pages 105~106.

8 Press the ▲▼ buttons to select a title you want to preview in the copy screen.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.    Title          Rec.Mode   Length
  1   JAN/18/2005 12:15A   LP → HS   00:10:21  Start
  2   JAN/19/2005 13:15A   SP → LS   00:15:21  Rec. Mode
  3   JAN/20/2005 15:15A   SP → HS   00:30:21
              Add to list              [DVD] Available
                                       LP   04:00:16
                                            4.48 GB
                                       Total
                                            00:56:03
                                            1.88 GB
 (Anykey)  ⬩⬩ MOVE   ☞ SELECT   ↻ RETURN   ⏻ EXIT
```
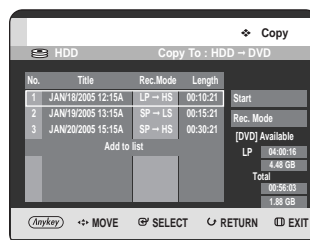
9 Press the **ANYKEY** button. Press the ▲▼ buttons to select **Preview**, then press the **ENTER** or ▶ button. You can preview the selected title through the display window located at the center of the screen.

```
                                    ❖ Copy
 ⊟ HDD              Copy To : HDD → DVD
 No.
  1   JAN
  2   JAN                              e
  3   JAN                              vailable
                                       04:00:16
                                       4.48 GB

                                       00:56:03
                                       1.88 GB
           ☞ SELECT   ↻ RETURN   ⏻ EXIT
```

10 Press the **RETURN** button to exit the Preview mode.

Editing

Selecting Record Mode of Each Title from the Copy List

You can copy multiple titles while setting different record modes for each title.

To setup, follow steps 1 to 7 on pages 106~107.

8 Press the ▲▼ buttons to select a title to change its record mode in the copy screen.

9 Press the **ANYKEY** button. Press the ▲▼ buttons to select **Rec. Mode**, then press the **ENTER** or ▶ button.

10 Press the ▲▼ buttons to select the record mode you want, then press the **ENTER** or ▶ button.

11 Repeat steps 9~11 to select a title to change it's record mode.
Rest of the copying process can be performed as described in pages 104 to 105.
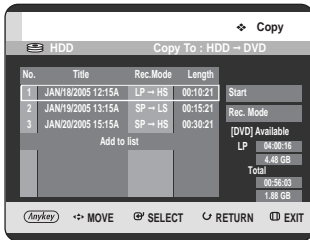
Changing Record Mode of All Titles from the Copy List

You can copy multiple titles while setting the same record mode for all titles.

To setup, follow steps 1 to 7 on pages 106~107.

8 Select the **Rec. Mode** on the right-hand side on the screen using the ▲▼◀▶ buttons, then press the **ENTER** button.
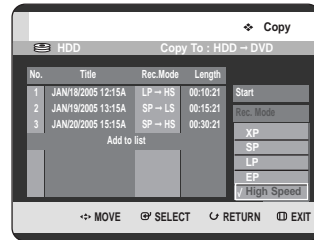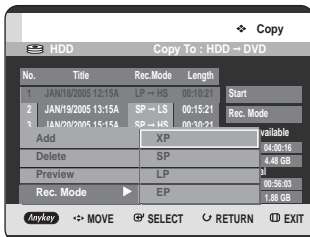
9 Press the ▲▼ buttons to select the record mode you want, then press the **ENTER** button.
Rest of the copying process can be performed as described in pages 104 to 105.

Editing

English **- 109**

Copying from DVD to HDD

Using the TITLE LIST button

1 Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.

2 Press the **OPEN/CLOSE** button to close the disc tray.

3 With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
The Title List screen is displayed.


```
                                    ❖  Title List
 DVD-RAM(VR)    No.      Title              Length
               001  JAN/18/2005 12:15A  00:10:21
               002  JAN/19/2005 12:15A  00:40:03
               003  JAN/20/2005 12:15A  00:20:15
               004  JAN/25/2005 12:15A  00:50:16

  JAN/18/2005 12:15 AM CH11
  JAN/18/2005 12:15 AM
 SP                         1/1 Page
 Anykey   ⬍ MOVE   ↩ SELECT  ↺ RETURN  ⫻ EXIT
```
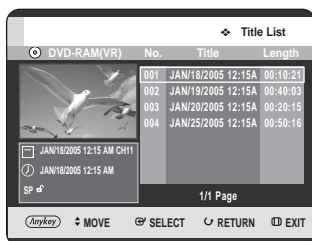
Using the MENU button.

• With the unit in Stop mode/Playback mode, press the **MENU** button.

• Press the ▲▼ buttons to select **Title**, then press the **ENTER** or ► button. The Title List screen is displayed.

4 Press the ▲▼ buttons to select the title you want to copy.
To move to other pages, press the **SKIP (⏮ ⏭)** buttons.
SKIP(⏮) : previous page of title list
SKIP(⏭) : next page of title list

5 Press the **ANYKEY** button.


```
                                    ❖  Title List
 Rename        No.      Title              Length
 Protection    001  JAN/18/2005 12:15A  00:10:21
 Copy          002  JAN/19/2005 12:15A  00:40:03
 Delete        003  JAN/20/2005 12:15A  00:20:15
 Edit       ►  004  JAN/25/2005 12:15A  00:50:16
 Playlist    ►
 Navigation  ►
 Select Media ►
 Disc Manager                1/1 Page
 Anykey   ⬌ MOVE   ↩ SELECT  ↺ RETURN  ⫻ EXIT
```

6 Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.
The Copy screen is displayed.


```
                                    ❖  Copy
  DVD-RAM(VR)      Copy To : DVD → HDD
 No.   Title      Rec.Mode  Length
 1  JAN/18/2005 12:15A  LP → HS  00:10:21   Start
             Add to list
                                   [HDD] Available
                                   LP    40:16:56
                                         52.99 GB
                                   Total
                                         00:10:21
                                         0.25 GB
 Anykey   ⬌ MOVE   ↩ SELECT  ↺ RETURN  ⫻ EXIT
```

- About Using COPY button -

Press the ▲▼ buttons to select the title you want to copy from the title list and then press the **COPY** button on the remote control. The Copy screen will appear with the selected title added.

• During Playback, you can also copy the title by pressing the **COPY** button.

7 Press the **ENTER** or ► buttons to select **Start**, then press the **ENTER** button.


```
  DVD           ▮         1%   ▯ HDD
  If you want to stop copy, press CANCEL key.
```

8 After a successful copy, "The title is successfully copied." message is displayed.

```
The title is successfully copied.
```
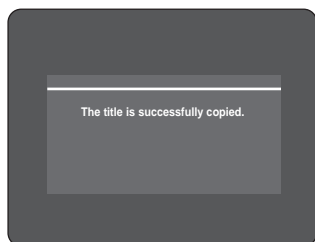
• Copying Multiple Titles at One Time – Same as an HDD operation(See page 106)
• Deleting an Undesired Title from the Copy List – Same as an HDD operation(See page 108)
• Previewing a Selected Title from the Copy List – Same as an HDD operation(See page 108)

✎

NOTE

■ You cannot copy anything else on finalized DVD-R and DVD-RW(V mode) mode.

■ You cannot copy a DVD-VIDEO to HDD.

■ High speed copying from a DVD-RAM or DVD-RW (VR mode) is available.

■ When you copy from DVD-RW(V mode)/-R disc to HDD, high speed copy is not available.

■ Record mode cannot be changed when you copy a title from DVD to HDD.

Contents Copy Specifications

Contents	DVD → HDD
Recorded Video Title	Supported
Copy Protected Title	Not supported
Copy Once Title	Not supported

Copying MP3 or JPEG Files from a Disc to HDD

▌ File Copy

1 Insert a JPEG disc or MP3 disc into the disc tray.

2 Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display. Check that the disc has enough available space for the recording.

3 Press the ▲▼ buttons to select **Music** or **Photo**, then press the **ENTER** or ▶ button.
The MP3 or JPEG file list is displayed.

```
                                    ❖  Music List
⊙ CD        ((•))  ◄))  flower.mp3          ▶ 02 : 10
                        📁 ..
                        ♪   flower.mp3
                        MP3  love. mp3
                        MP3  Straight from the heart.mp3
  📁 MP3                MP3  Run to you.mp3
  🎵 01/15             MP3  Heaven.mp3
  💿 4.0 MB            MP3  This Love.mp3          ▼
                                 1/3 Page
 (Anykey)  ⟷ MOVE   ☞ SELECT   ↻ RETURN   ⓘ EXIT
```
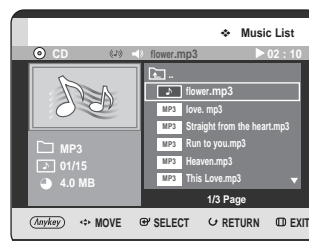
4 Press the ▲▼ buttons to select the MP3 or JPEG files you want to copy, then press the **ANYKEY** button.
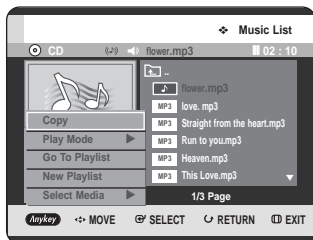
5 Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ▶ button.
File copy begins.
When copying a file from a disc to HDD, it is copied to the HDD's Music or Photo folder.
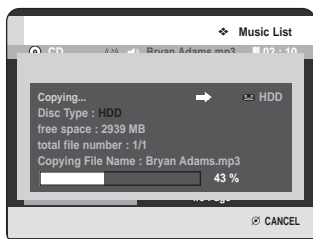
Folder Copy

1 Insert a Disc (JPEG or MP3) in to the tray.

2 Press the ▲▼ buttons to select **Music** or **Photo**, then press the **ENTER** or ▶ button.
The MP3 or JPEG folder is displayed.
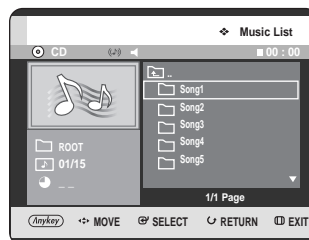
3 Press the ▲▼ buttons to select the MP3 or JPEG folder you want to copy, then press the **ANYKEY** button.
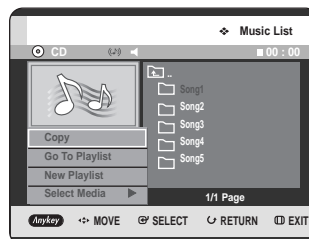
4 Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ▶ button.
Folder copy begins.
Subfolders and files in the selected folder are copied.

Editing
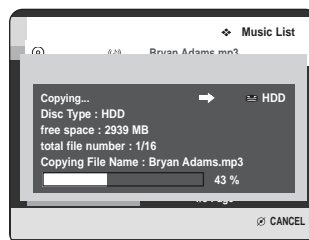
- Pressing the **CANCEL** button during folder copying will cancel the folder copying after the current file is copied.

- Up to 1,500 files and 1,000 subfolders can be copied into one folder for MP3 files.

- Up to 4,500 files and 1,000 subfolders can be copied into one folder for JPEG files.

- Files having an existing name of ***.mp3/***.jpg, is automatically renamed to ***01.mp3/***01.jpg and copied.

- It allows up to 999 copies to have the same name.

- You cannot copy an Audio CD.

- MP3 or JPEG files can be copied only from a disc to the HDD.

- File size on a disc and the copied file in the HDD may be slightly different due to the file system.

Contents Copy Specifications

Contents	HDD → DVD	DVD → HDD
MP3	Not supported	supported
JPEG(photo)	Not supported	supported

Disc Manager

Editing the Disc Name

Follow these instructions to give a name to a disc.

1 With the unit in Stop mode, press the **ANYKEY** button.
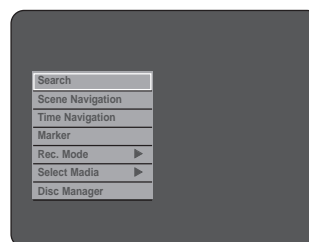
Search
Scene Navigation
Time Navigation
Marker
Rec. Mode ▶
Select Madia ▶
Disc Manager

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.

❖ **Disc Manager**
DVD-RAM(VR)
Disc Name
Used Space   00 : 04 : 30
Available Space   02 : 08 SP

Disc Protection Info Not Protected

Rename   Protection   Delete All   Format

◆ MOVE   ☞ SELECT   ↺ RETURN   ⬒ EXIT

Editing

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3 Press the ◄ ► buttons to select **Rename**, then press the **ENTER** button.
The Rename screen is displayed.

```
                                    ❖ Rename
⊙ DVD-RAM(VR)

A  B  C  D  E    a  b  c  d  e    1  2  3  4  5
F  G  H  I  J    f  g  h  i  j    6  7  8  9  0
K  L  M  N  O    k  l  m  n  o    -  _  +  =  .
P  Q  R  S  T    p  q  r  s  t    ~  !  @  #  &
U  V  W  X  Y    u  v  w  x  y    %  ^  &  (  )
Z                z
   Back Space    Space  Delete       Clear  Save
         ⬥ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```

4 Select the desired characters using the ▲▼ ◄ ► buttons, then press the **ENTER** button.

```
                                    ❖ Rename
⊙ DVD-RAM(VR)
Disc__

A  B  C  D  E    a  b  c  d  e    1  2  3  4  5
F  G  H  I  J    f  g  h  i  j    6  7  8  9  0
K  L  M  N  O    k  l  m  n  o    -  _  +  =  .
P  Q  R  S  T    p  q  r  s  t    ~  !  @  #  &
U  V  W  X  Y    u  v  w  x  y    %  ^  &  (  )
Z                z
   Back Space    Space  Delete       Clear  Save
         ⬥ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```
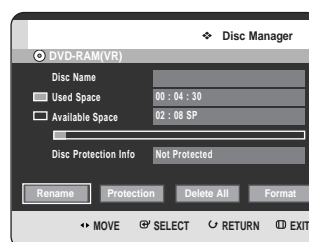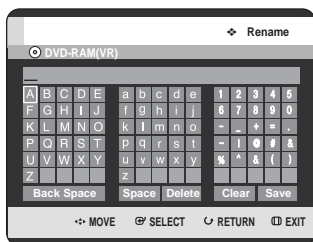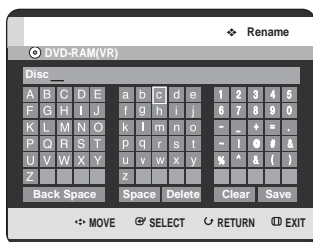
5 Press the ▲▼ ◄ ► buttons to select **Save**, then press the **ENTER** button.
A disc name is given to the disc.

```
                                    ❖ Disc Manager
⊙ DVD-RAM(VR)
  Disc Name            Disc
  Used Space           00 : 04 : 30
  Available Space      02 : 08 SP

  Disc Protection Info  Not Protected

   Rename   Protection   Delete All   Format
         ⬥ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```
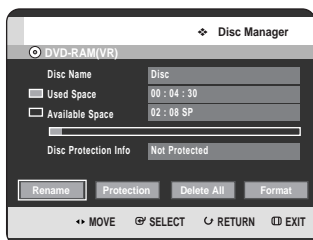
NOTE
- You may need to clear disc protect before beginning editing.
- Depending on the kind of disc, the displayed screen may be different.

Disc Protection

Disc Protection allows you to protect your discs from being formatted or deleted due to unintended operations.

1 With the unit in Stop mode, press the **ANYKEY** button.
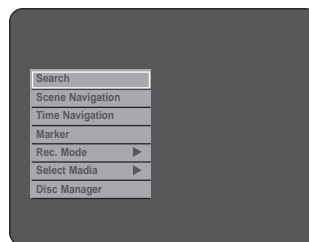
```
  Search
  Scene Navigation
  Time Navigation
  Marker
  Rec. Mode          ►
  Select Madia       ►
  Disc Manager
```

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

```
                                    ❖ Disc Manager
⊙ DVD-RAM(VR)
  Disc Name
  Used Space           00 : 04 : 30
  Available Space      02 : 03 SP

  Disc Protection Info  Not Protected

   Rename   Protection   Delete All   Format
         ⬥ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```

3 Press the ◄ ► buttons to select **Protection**, then press the **ENTER** button.

```
                                    ❖ Disc Manager
⊙ DVD-RAM(VR)


              Disc Protection:

           On          Off


         ⬥ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```

4 Press the ◄ ► buttons to select **On**, then press the **ENTER** button.

Editing
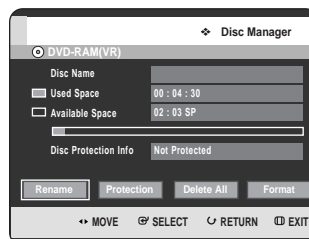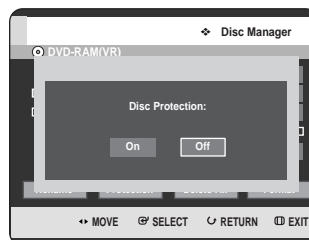
Formatting a Disc

Use these instructions to format a disc.
The disc protect should also be cleared.

HDD   DVD-RAM   DVD-RW

1 Press the HDD or DVD button on the unit or remote to select which disc (DVD/HDD) you want to format.

2 With the unit in Stop mode, press the **ANYKEY** button.
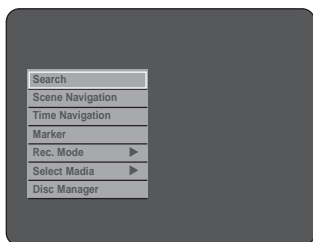
Search
Scene Navigation
Time Navigation
Marker
Rec. Mode ►
Select Madia ►
Disc Manager

3 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

❖ Disc Manager
HDD
[Title Partition]
Used Space   00 : 10 : 32
Available Space   054 : 20 SP

[Music/Photo Partition]
Used Space   0006MB
Available Space   10034MB

Delete All   Format

◄► MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
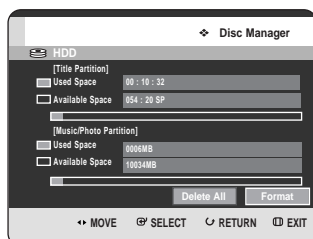
4 Press the ◄ ► buttons to select **Format**, then press the **ENTER** button.

❖ Disc Manager
HDD

Do you want to format this disc?

Yes   No

◄► MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
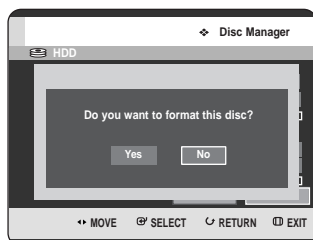
HDD/DVD-RAM
· You will be prompted with the confirmation message "Do you want to format this disc?".
· If you select **Yes**, you will be prompted with the confirmation message "All data will be deleted. Do you want to continue?".

✎
NOTE
■ Shortly after HDD disc format, the space equivalent to several 10 seconds or several minutes will be displayed as used. This is because a certain HDD space is always reserved for data recording for the purpose of EPG service even though there is no data to be recorded after such a format process.

DVD-RW
· You will be prompted with the confirmation message "Choose the recording format for DVD- RW."

❖ Disc Manager
DVD-RW(VR)

Choose the recording format for DVD-RW.

DVD-VR   DVD-V

Protection   Delete All   Finalize   Format

◄► MOVE   ☞ SELECT   ↺ RETURN   ⏻ EXIT
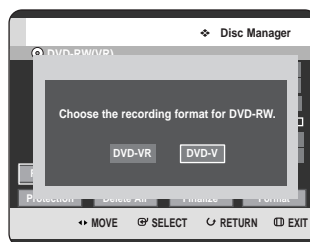
5 Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button. The disc is formatted.

DVD-VR and DVD-V are defined according to their recording format.

	DVD-VR	DVD-V
DISC	DVD-RAM	DVD-RW
	DVD-RW	DVD-R

✎
NOTE
■ Discs created in DVD-V mode can only be played in DVD recorders. Discs created in DVD-VR mode can be played on all standard DVD players.

Delete All Title Lists/Music Lists/Photo Lists
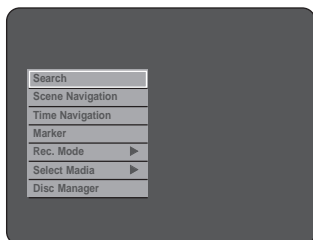
HDD

1 With the unit in Stop mode, press the **ANYKEY** button.

Search
Scene Navigation
Time Navigation
Marker
Rec. Mode   ▶
Select Madia   ▶
Disc Manager

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.

❖ **Disc Manager**

HDD
[Title Partition]
Used Space   00 : 10 : 32
Available Space   054 : 20 SP

[Music/Photo Partition]
Used Space   0006MB
Available Space   10034MB

Delete All   Format

↔ **MOVE**   ☞ **SELECT**   ↺ **RETURN**   ⏻ **EXIT**

3 Press the ◀ ▶ buttons to select **Delete All**, then press the **ENTER** button.

❖ **Disc Manager**

HDD

Select contents to delete all

Title   Music   Photo

↔ **MOVE**   ☞ **SELECT**   ↺ **RETURN**   ⏻ **EXIT**
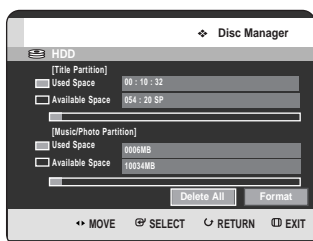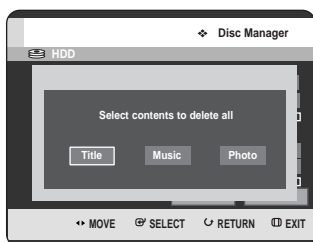
• When Protected Entry exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate. If you want to delete a protected entry, disable Protect for it on the Lock item.

4 Press the ◀ ▶ buttons to select the **Title**, **Music** or **Photo**, then press the **ENTER** button.

Title

❖ **Disc Manager**

HDD

All title will be deleted.
Do you want to continue?

Yes   No

↔ **MOVE**   ☞ **SELECT**   ↺ **RETURN**   ⏻ **EXIT**

Music

❖ **Disc Manager**

HDD

All music will be deleted.
Do you want to continue?

Yes   No

↔ **MOVE**   ☞ **SELECT**   ↺ **RETURN**   ⏻ **EXIT**

Photo

❖ **Disc Manager**

HDD

All photo will be deleted.
Do you want to continue?

Yes   No

↔ **MOVE**   ☞ **SELECT**   ↺ **RETURN**   ⏻ **EXIT**
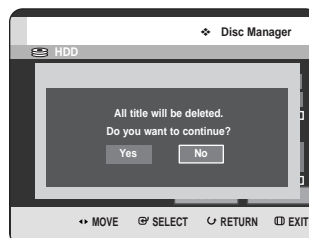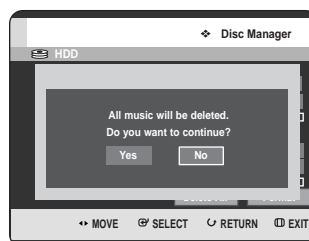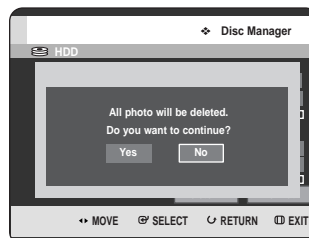
5 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.
All title lists, music list or photo lists are deleted.

Editing

Delete All Title Lists

DVD-RAM   DVD-RW   DVD-R

1 With the unit in Stop mode, press the **ANYKEY** button.

```
Search
Scene Navigation
Time Navigation
Marker
Rec. Mode           ▶
Select Madia        ▶
Disc Manager
```

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.

```
                              ❖ Disc Manager
⊙ DVD-RAM(VR)
  Disc Name
  Used Space        00 : 11 : 56
  Available Space   01 : 06 SP

  Disc Protection Info   Not Protected

  Rename   Protection   Delete All   Format
     ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```

3 Press the ◀ ▶ buttons to select **Delete All**, then press the **ENTER** button.
   • You will be prompted with the confirmation message "Do you want to delete all title lists?".

```
                              ❖ Disc Manager
⊙ DVD-RAM(VR)

    Do you want to delete all title lists?

         Yes        No

  Rename   Protection   Delete All   Format
     ⟷ MOVE   ☞ SELECT   ↺ RETURN   ⏏ EXIT
```

• When Protected Entry exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate. If you want to delete a protected entry, disable Protect for it on the Lock item.
• When protected a DVD-RAM is used, data cannot be deleted from a disc.

4 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.
All title lists are deleted.

Editing

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Finalizing a Disc

After you record titles onto a DVD-RW/DVD-R disc with your HDD & DVD RECORDER, it needs to be finalized before it can be played back on external devices.
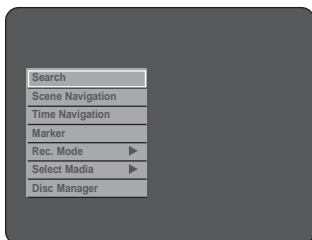
DVD-RW DVD-R

1 With the unit in Stop mode, press the **ANYKEY** button.

> Search
> Scene Navigation
> Time Navigation
> Marker
> Rec. Mode ▶
> Select Madia ▶
> Disc Manager

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.

❖ **Disc Manager**

DVD-RW(VR)
Disc Name
Used Space   00 : 10 : 32
Available Space

Disc Protection Info Not Protected
Current Rec. Mode   VR-Mode

Rename
Protection   Delete All   Finalize   Format
◆ MOVE   ☞ SELECT   ↻ RETURN   ⊕ EXIT
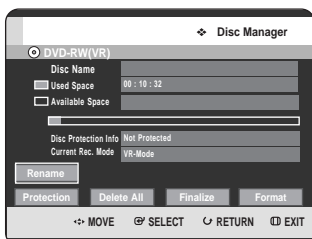
3 Press the ▲▼ buttons to select **Finalize**, then press the **ENTER** button.

You will be prompted with the message "Do you want to finalize disc?".

❖ **Disc Manager**

DVD-RW(VR)

Do you want to finalize disc?

Yes   No

Protection   Delete All   Finalize   Format
◆ MOVE   ☞ SELECT   ↻ RETURN   ⊕ EXIT

If you select **Yes**, you will be prompted again with the message "Disc will be finalized. Do you want to continue?".

❖ **Disc Manager**

DVD-RW(VR)

Disc will be finalized.
Do you want to continue?

Yes   No

Protection   Delete All   Finalize   Format
◆ MOVE   ☞ SELECT   ↻ RETURN   ⊕ EXIT
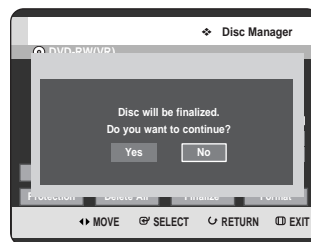
4 Press the ◀ ▶ buttons to select **Yes**, then press the **ENTER** button.
The disc is finalized.

⊗
NOTE

- Once a disc is finalized, you cannot delete entries from the record list.

- After being finalized, the DVD-R/DVD-RW(video mode) operates in the same manner as a DVD-Video.

- Depending on the disc type, the displayed screen may be different.

- Finalizing time may be different depending on the amount of data recorded on the disc.

- Data on the disc will be damaged if the HDD & DVD RECORDER is powered off during finalization process.

- When the disc contains a music or JPEG files, it cannot be finalized.

Editing

Unfinalizing a Disc (V/VR mode)

To add additional titles to a finalized disc,you must first unfinalize it.

1 With the unit in Stop mode, press the **ANYKEY** button.
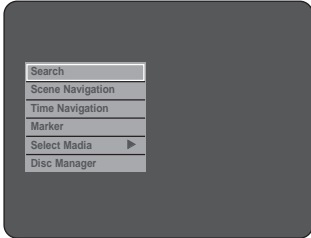
Search
Scene Navigation
Time Navigation
Marker
Select Madia   ▶
Disc Manager

2 Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.

```
                          ❖  Disc Manager
  ⊙ DVD-RW(VR:F)
      Disc Name
   ▢ Used Space        00 : 00 : 00
   ▢ Available Space   00 : 00 SP

   Current Rec. Mode   DVD-VR

                                   unfinalize    Format
   ◄► MOVE    ☞ SELECT    ↻ RETURN    ⊙ EXIT
```
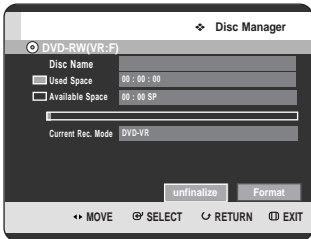
3 Press the ◄ ► buttons to select **Unfinalize**, then press the **ENTER** button.

You will be prompted with the message "Do you want to unfinalize disc?".
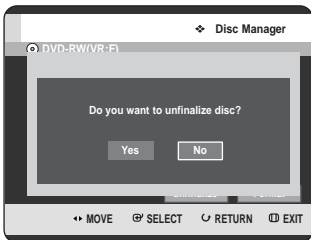
```
                          ❖  Disc Manager
  ⊙ DVD-RW(VR:F)

      Do you want to unfinalize disc?

            Yes        No

   ◄► MOVE    ☞ SELECT    ↻ RETURN    ⊙ EXIT
```

If you select **Yes**, you will be prompted again with the message "Disc will be unfinalized. Do you want to continue?".

```
                          ❖  Disc Manager
  ⊙ DVD-RW(VR:F)

        Disc will be unfinalized.
        Do you want to continue?
            Yes        No

   ◄► MOVE    ☞ SELECT    ↻ RETURN    ⊙ EXIT
```
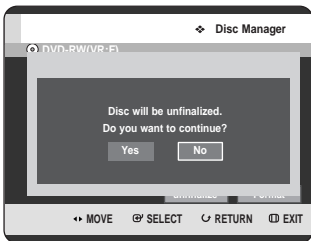
4 Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button.
The disc is unfinalized.

NOTE

■ A DVD-RW can be finalized or unfinalized in Video mode.

	Finalize	Unfinalize
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

■ A DVD-RW can be finalized or unfinalized in VR mode.

	Finalize	Unfinalize
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

Editing

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Additional Information

Troubleshooting

If your product malfunctions, go through the checkpoints below before contacting a Samsung authorized service center.

Power

The input is displayed for a while when the power is turned on.

⬇

Checkpoint 1 The HDD & DVD RECORDER requires some time to initialize and the input will be displayed for approx. 10 seconds after it is turned on.

Recording

Cannot record TV programs.

⬇

Checkpoint 1 Check whether the power cord is securely plugged into the power outlet.

Checkpoint 2 Did you set the HDD & DVD RECORDER channel settings correctly?

Checkpoint 3 Check the free space on your HDD/DVD-RAM/-RW/-R discs.

I pressed the **REC** button but there is no response.

⬇

Checkpoint 1 Recording is possible for HDD/DVD-RAM/DVD-RW/-R discs only.
If a program is copy protected, it cannot be recorded.

Reference

Playback

Cannot play the disc.

⬇

`Checkpoint 1` Check whether the disc is inserted correctly with the label facing up.

`Checkpoint 2` Check the regional code of the DVD disc.

`Checkpoint 3` This HDD & DVD RECORDER cannot play some types of discs. (See pages 6, 49)

⊘ icon appears on the screen.

⬇

`Checkpoint 1` You cannot use this operation or function due to one of the following reasons:
(1) Your DVD disc restricts it.
(2) Your DVD disc does not support this feature (for example: angles)
(3) The feature is not available at the moment.
(4) You've requested a title, chapter, or scan time that is out of range.

Play mode settings are different from the settings configured in the Settings menu.

⬇

`Checkpoint 1` The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.

Cannot change the aspect ratio.

⬇

`Checkpoint 1` The aspect ratio is fixed for DVD discs. (See page 44)

The angle operation does not work while playing a DVD disc.

⬇

`Checkpoint 1` The angle operation is available only when the disc contains images captured from different angles.

The selected audio and/or subtitle language is not played.

⬇

`Checkpoint 1` Audio and subtitle languages are disc-specific. Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.

Cannot copy title or file to the other mode.

⬇

`Checkpoint 1` DVD discs encoded with copy protection can not be copied to HDD.

`Checkpoint 2` Refer to "Contents Copy Specifications" on page 6 to check if copying is supported.

Video

The disc revolves, but no image or bad quality images are displayed.

↓

Checkpoint 1   Be sure that the Video Setting is properly set. (See pages 44~46)

Checkpoint 2   Check whether there is damage to or any foreign material on your disc.

Checkpoint 3   Some low quality discs may not play properly.

Checkpoint 4   If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a fault.

Sound

No sound.

↓

Checkpoint 1   Are you watching a program in slow or skip mode?
If you are playing a program at a speed other than normal speed, sound will not be heard.

Checkpoint 2   Check the connections and settings. (See pages 23~25, 42~43)

Checkpoint 3   Check whether the disc is damaged. Clean the disc, if necessary.

Checkpoint 4   Check whether the disc is inserted correctly with the label facing up.

No audio output.

↓

Checkpoint 1   Check whether you have selected the correct digital output options in the Audio Output Options menu. (See page 42)

Remote Control Unit

The remote control doesn't work.

↓

Checkpoint 1   Point the remote control at the remote control sensor on your HDD & DVD RECORDER. Allow for proper distance. Remove obstacles between your HDD & DVD RECORDER and the remote control.

Checkpoint 2   Check whether the batteries are drained.

Checkpoint 3   Check the TV/DVD selection button setting.

Checkpoint 4   Check whether TV control button is selected or not.

Other

I forgot my password for parental supervision.

↓

Checkpoint 1

Press and hold the **PLAY ( )** and **STOP ( )** button on the front panel of the HDD & DVD RECORDER for more than 5 seconds with no disc in the unit. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary. (Note that this function is possible only when no disc is inserted.)

Is it possible to change a subtitle and an audio signal on a recorded disc?

↓

Checkpoint 1

A recorded disc is played with only the subtitle and the audio signal which were selected during recording.

Other problems.

↓

Checkpoint 1

Read the table of contents and then find and read the section describing your problem, follow the instructions given.

Checkpoint 2

Plug your HDD &DVD RECORDER off and on.

Checkpoint 3

If the problem still persists, contact a nearby Samsung service center. To locate a center near you, call 1-800 SAMSUNG.

Problems and Solutions (Display error Message)

Before contacting a Samsung authorized service center, perform the following simple checks.

Problem	Explanation / Solution
You cannot record a copy protected movie.	• You can't record the video since it is protected by copyright.
You cannot record. This disc is protected.	• Disc you are using is protected. To record on this disc or use this function, cancel the disc protection function. Refer to page 114.
This disc cannot be formatted (the disc is protected).	
This disc cannot be renamed (the disc is protected).	
The disc cannot be finalized (the disc is protected).	
This [Menu] is not available (the disc is protected).	
The disc cannot be played, Please check the regional code of the disc.	• The disc does not match the regional code for your area and cannot be played on this device.
This disc cannot be formatted. Please check the disc.	• Make sure there are no scratches or dirt on the disc.
You cannot format the disc because of error detection.	
You cannot finalize the disc because of error detection.	
You cannot unfinalize the disc because of error detection.	
The disc cannot be played, Please check the TV system.	• The disc is PAL format and cannot be played on this unit.
The disc can be neither played nor recorded.	• Make sure there are no scratches or dirt on the disc.
The disc cannot be played, Please check the disc.	
If the disc has invalid information, no more titles can be recorded. Please format the disc beforehand.	• You can't use the disc because it contains errors from previous recordings. Use the disc after formatting.

Reference

Problems and Solutions (Display error Message)

Problem	Explanation / Solution
Error is detected on the disc.	• You can't use the disc because it contains errors from previous recordings. Use the disc after formatting.
System error is found. Please try it again after turning off the power.	• When operating, errors happen. Turn off the device. (To turn off, press and hold the power button on the front of the device for 10 seconds.) After turning off, press the Open button and remove the disc from the device.
The DV device is not connected.	• Make sure the DV device is connected properly to the DV connection Jack. If it is connected properly, turn it off and on once again.

If you are unable to solve the problem after reading the above instructions, note:
- The model and serial number on the rear of your HDD & DVD RECORDER
- The warranty information
- A clear description of the problem

Then contact your nearest SAMSUNG authorized service center. Call 1-800-SAMSUNG for a center near you.

Specifications

General	Power requirements	120V AC, 60Hz
	Power consumption	44 Watts
	Weight	9.27 lb (4.20 kg)
	Dimensions	17in (43 cm) (W) x 10in (25.5 cm) (D) x 3.1in (7.9 cm) (H)
	Operating temp.	+41°F to +95°F
	Other conditions	Keep level when operating. Less than 75% operating humidity
Input	Video (1,2)	1.0 V p-p at 75Ω load, sync negative
		S-Video input (Y: 1.0Vp-p, C: 0.286Vp-p at 75Ω load)
	Audio(1,2)	Max.Audio Input Level : 2Vrms
	DV Input	IEEE 1394(4p) compatible jack
	Receivable Channels	Regular TV broadcasting: VHF (2~13), UHF (14~69)
		Cable TV broadcasting: 1~125
Output	Audio	Analog output jacks 1, 2
		Optical/Coaxial digital audio output
		Full scale Analog output level : 2Vrms
	Video	Video output jack 1
		S-Video output 1 (Y:1.0Vp-p, C:0.286Vp-p at 75Ω load)
		Component output 1 (Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ω load)
Recording	Picture Compression format	MPEG-II
	Audio Compression format	Dolby Digital 2ch/256Kbps
	Recording Quality	XP (about 8.5 Mbps), SP (about 4.5 Mbps), LP (about 2 Mbps), EP (about 1.6 Mbps or about 1.2 Mbps),
	Audio Frequency Response	20 Hz ~ 20 kHz

Audio Output
For DVD discs, audio signals recorded at 96kHz sampling frequency are converted into and output at 48kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analog Audio Output	48 / 96kHz	44.1kHz
Digital Audio Output	48kHz	44.1kHz

TV Guide On Screen® User Manual

For use in USA

TV Guide On Screen Overview

▼

Guide Setup for a DVD Recorder

▼

Screen Components

▼

Guide Navigation

▼

Main Services
- Listing, Search, Schedule, Recordings, Setup, Record and Remind

▼

Frequently Asked Questions(FAQs)

▼

Troubleshooting

▼

TV Guide On Screen Glossary

Notice

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Disclaimer Notice

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TV Guide on Screen Overview

Congratulations, your new TV contains the TV Guide On Screen Interactive Program Guide! This Guide has features and services that help you get the most out of your viewing experience.

Your Guide has the following features:

- Three 30-minute time periods program listings in a 16x9 aspect ratio
- Eight days of show listings (today plus seven days)
- Icons that indicate show rating, stereo, HDTV, new episode, etc.
- Intuitive up/down/left/right navigation using your remote control
- Set shows to Record
- Schedule show Reminders
- Search shows by category (e.g., Movies, Sports, Children, HDTV, etc.)
- Search for shows based on keywords or alphabetically by title
- Recordings for DVD recordable and DVR shows
- Direct tuning to a channel
- Shows information while watching TV
- Streamlined System Setup and default setting options
- Channel lineup customization
- Help screens while in the Guide

✎

NOTE

- The TV Guide On Screen system works with cable-ready, cable box, and digital cable services, as well as over-the-air broadcast; it does not provide listings for satellite services.

Guide Setup for a DVD Recorder

Welcome Screen

Initial DVD Recorder set up leads you to the
Welcome screen.

- Or press the **GUIDE** button to begin setup.
- The Welcome Screen lists features in the Guide.
- Press **ENTER** to display Screen **Reminder
  Screen.**

Welcome Screen

Reminder Screen

If you previously skipped Guide setup, you see the
Reminder Screen when you power On your DVD
Recorder.

To make a selection, use the up or down arrow
buttons to highlight an option, and press **ENTER.**

- Or press the Guide button to begin setup.
- The Welcome Screen lists features in the Guide.
- Press **ENTER** to display Screen 1.

Reminder Screen
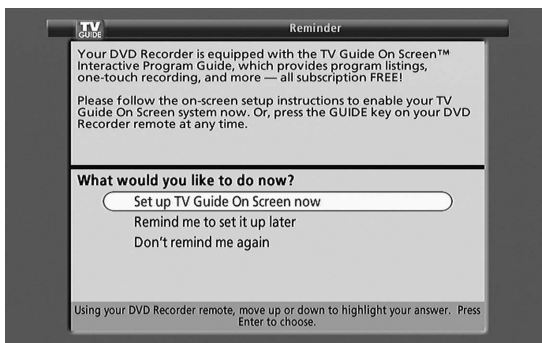
✎
NOTE

- If you decide not to setup the Guide now,
  this reminder screen will appear each time
  you power On the DVD Recorder (except if
  you selected "Don't remind me again").

Screen 1: Country

- This screen asks you the location of your DVD
  Recorder.
- Use the up or down arrow button to highlight a
  country.
- Press **ENTER** to display Screen 2.

Screen 1
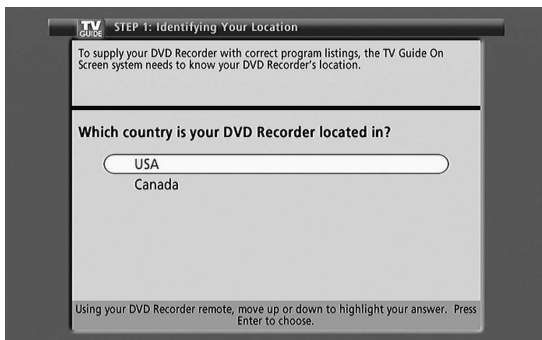
Screen 2: Enter ZIP or Postal Code

- If you selected USA in Screen 1, you see the ZIP Code screen.
- You input numbers by either
  - pressing the number buttons on the remote or
  - using the up or down arrow button to display a number, and then the left or right arrow button to move to another field.
- Press **ENTER** to display Screen 3.
- If you selected Canada in Screen 1, you see the Postal Code screen.
- You input characters by using the up or down arrow button, and then the left or right arrow button to move to another field.
- Press **ENTER** to display Screen 3.
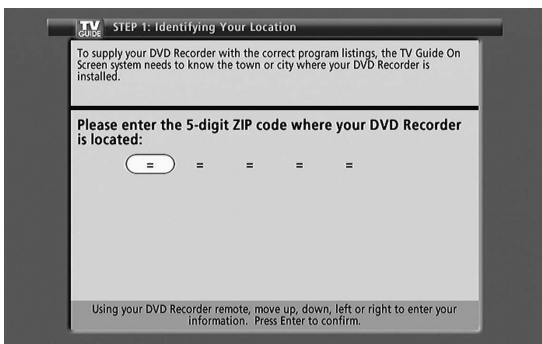
Screen 2

Screen 2-1

Screen 3: Do you have Cable?

- If you select Yes, you will see Screen 4.
- If you select No, you will see Screen 12.

Screen 3

Screen 4: Do you have a Cable Box?

- If you select Yes, you will see Screen 5.
- If you select No, you will see Screen 13.

Screen 4

Screen 5 : Which TV Guide input is the cable box plugged into?

If you select RF TUNER, you will see screen 6.
If you make any other choice, you will see screen 7.

Screen 5

Screen 6 : Cable Box Tuning Channel

• Select the channel used for the cable box.
• Press **ENTER** to display Screen 7.

Screen 6

Screen 7 : Cable Box Configuration Diagram

• The diagram shows the correct way to install the G-LINK cable from the back of the DVD Recorder to the cable box. **Make sure the G-LINK cable is properly installed.**
• Press **ENTER** to display Screen 8.

Screen 7

Screen 8 : Cable Box Brand Name

• Use the up and down arrows to select a cable box brand.
• Press **ENTER** to display Screen 9.

Screen 8

English **- 131**
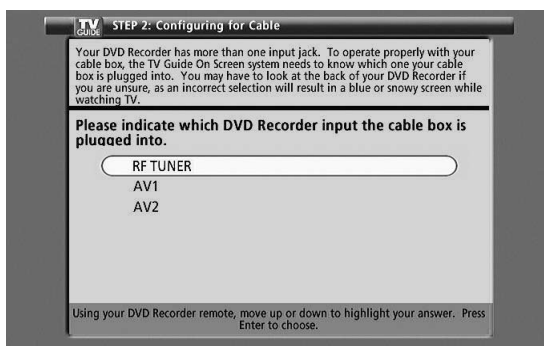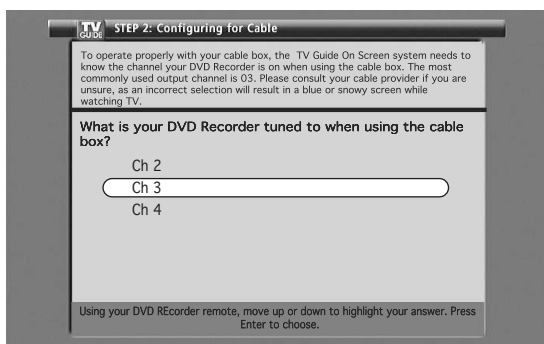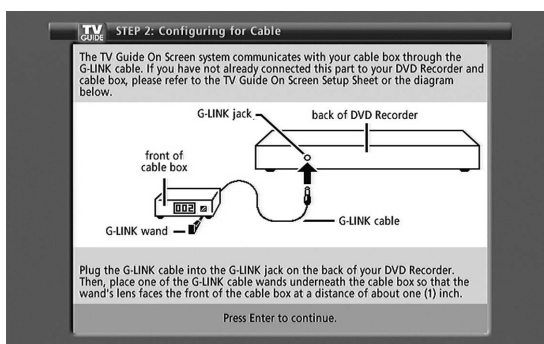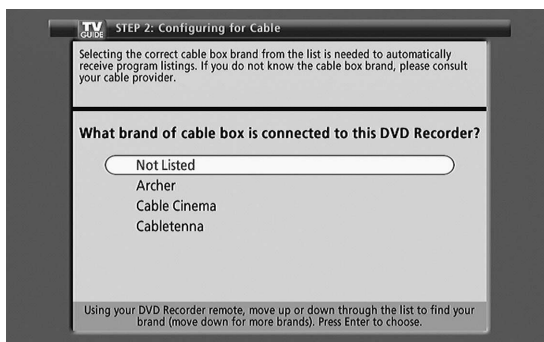
Screen 9 : Cable Box Preparation

• Follow the on-screen instructions, and press
  ENTER to display Screen 10.

Screen 9

Screen 10: Cable Box Code Testing

When testing is done, Screen 11 displays
automatically.

Screen 10

Screen 11: Cable Box Tuned to Channel 9?

If you select Yes, you will see Screen 12.
If you select No, a different code is tested in Screen 10.

✎
NOTE
■ Many Cable Boxes require testing more
  than one code.

If you select Test this code again, the same code is
tested again in Screen 10.

Screen 11

132 - English
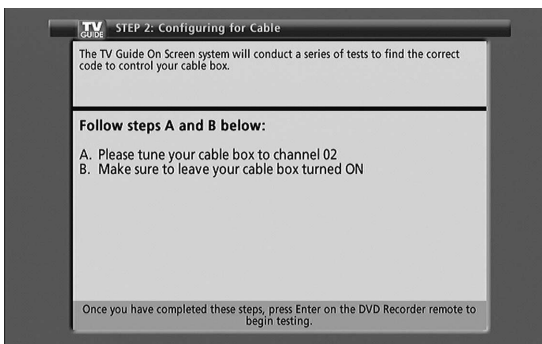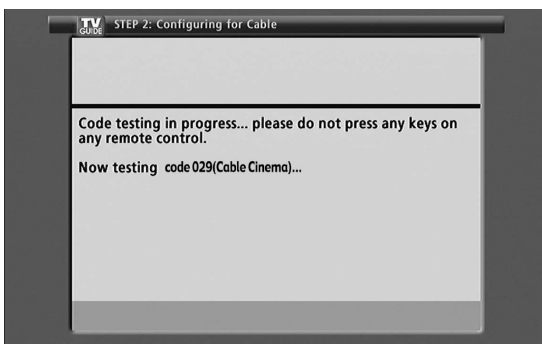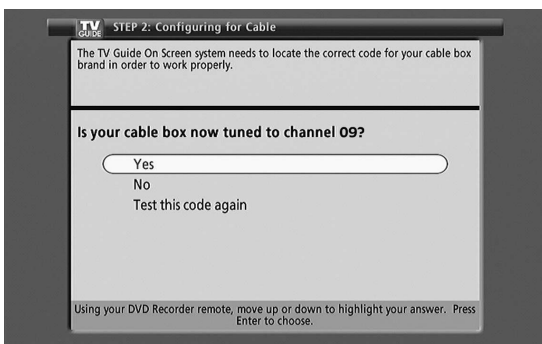
Screen 12: Do you have an antenna connected?

If you select Yes, you will see Screen 13.

If you select No, you will see Screen 13.

If you select YES, some devices may display an additional screen. After that screen, you will see Screen 13.

Screen 13: Are the settings correct?

If you select Yes, end setup, you see Screen 14.
If you select No, repeat setup process, you will see Screen 1.

Screen 14: Congratulations

● You have successfully completed Setup!
● Press **ENTER** and you will see Screen 15.

Screen 15: Helpful Information

● This screen tells you valuable information on using your Guide.
● Press **Enter** to watch TV.

Screen 12
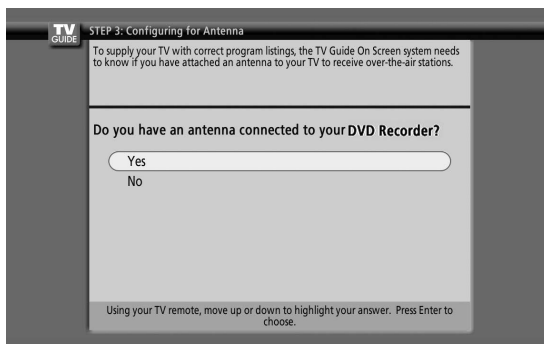
Screen 13
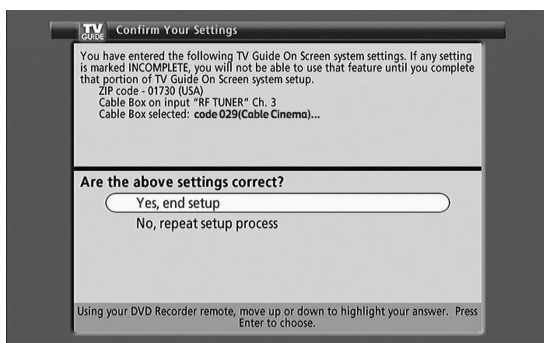
Screen 14
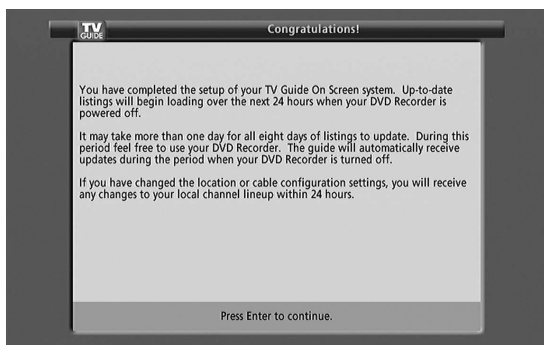
Screen 15
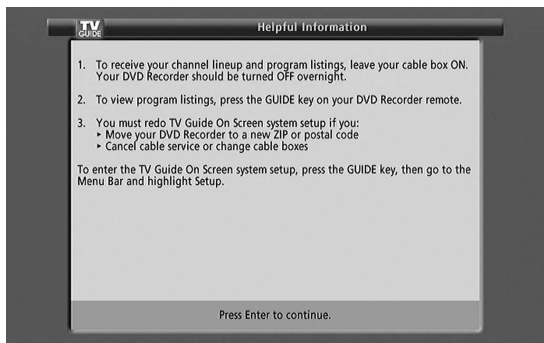
Screen Components

Guide screens have all or many of the features and controls in common, as shown in the following figure:

- Video Window - displays TV video while the Guide is displayed

- Tile - displays show title

- Highlight - indicates an active tile

- Info Box - provides information for a highlighted item

- Info Button - cycles through the various Info Box sizes

- Channel Logo - identifies network

- Record/Remind Icons - indicates a show is set to Record or set as a Reminder

- Panel Ad - location where show- or product-specific information appears (and also where Panel Menu appears)

- Channel Ad - location where show-specific information appears

- Service Bar - provides access to the main Guide Services

- Current Service Label - indented to indicate current Service displayed
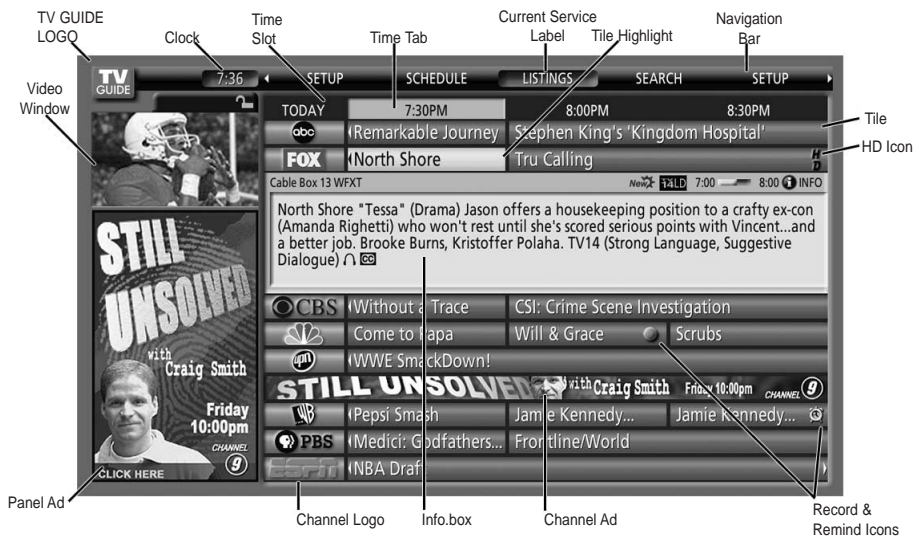
Video Window

The **Video Window** is located in the upper-left corner of
the Guide. When you enter the Guide, the TV video for
the current show appears in the Video Window. The
Video Window also includes a clock display and a
lock/unlock icon to indicate the status of the Video
Window.

You can set the Video Window to remain on a single
channel (lock) or change channels (unlock) as you
navigate through **LISTINGS.** With a channel logo or the
LISTINGS Service Label highlighted, press the Menu
button to display the option to Lock/Unlock the Video
Window.

TV Guide
Logo

Clock

Lock/Unlock
Icon

Video
Window
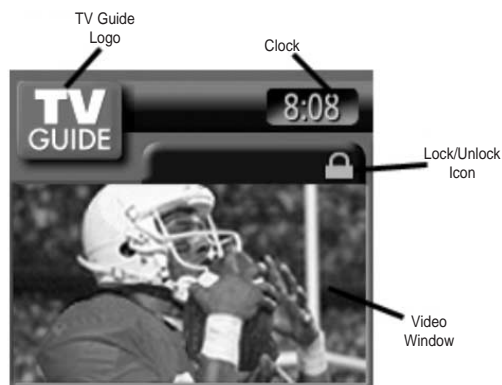
Info Box

An **Info Box** contains information about a show,
service, ad, or provides general help. A Show Listing
Info Box can have up to three sizes: Small, Large, and
"No". The default size of the Info Box is Last Used.
Press the Info Button to cycle among the sizes. The
user may change the default size in the Setup Service.

Info Button

The Info button **⊕ INFO** appears on the button bar, if
the Info box size can change and/or if there are
additional Info screens.

- Pressing the **INFO** button on the remote cycles
  between Info box sizes, as available.
- In some instances, the **INFO** button is used to
  page forward, if there are additional pages of
  information, such as a Panel Ad, Channel Ad, or
  help text.

Icons

Icons are visual representations in TV Guide On Screen of
- Current information
- Current and future actions
- Current and future status

Name	Icon	Description
Info Button		Indicates additional Info box information is available or that the Info box has additional sizes. Indicates additional Info box information is available. Icon only appears for Panel Menus.
Progress Bar		Indicates how much time has elapsed in current program.
HDTV		Show is presented in High-Definition TV, if available
New		Show is new (not a re-run)
Stereo		Show is available in Stereo
CC		Closed Captioning is available for the show
TV Rating	For example,	TV rating for the show
Record Once		• Show is set to Record Once • Other frequencies are Daily, Regularly, and Weekly
Record Daily		Indicates the program is set to record Daily (manual record setting only).
Record Off		Show is set to Record but is currently Off (show remains in Schedule)
Record Suspended		• Show is Suspended due to a schedule conflict (show remains in Schedule) • Recording resumes when the conflict no longer exists
Remind Once		• Show is set to Remind Once • Other frequencies are Daily, Regularly, and Weekly
Remind Daily		Indicates the program is set to Remind Daily (manual record setting only).
Remind Off		Show is set to Remind but is currently Off (show remains in Schedule).
Remind Suspended		• Show is Suspended due to a schedule conflict (show remains in Schedule). • Remind resumes when the conflict no longer exists.
Recording Media HDD		Displays to indicate HDD storage
Recording Media DVD		Displays to indicate DVD storage
Delete Recording "I delete"		Indicates recording will not be deleted until done so by user
Lock/Unlock		Indicates status of the Video Window

Panel Menu

Panel Menu　　　　　　　　Highlight　　　　　　　　Parked Highlight

Odometer　　　　Number Entry Box
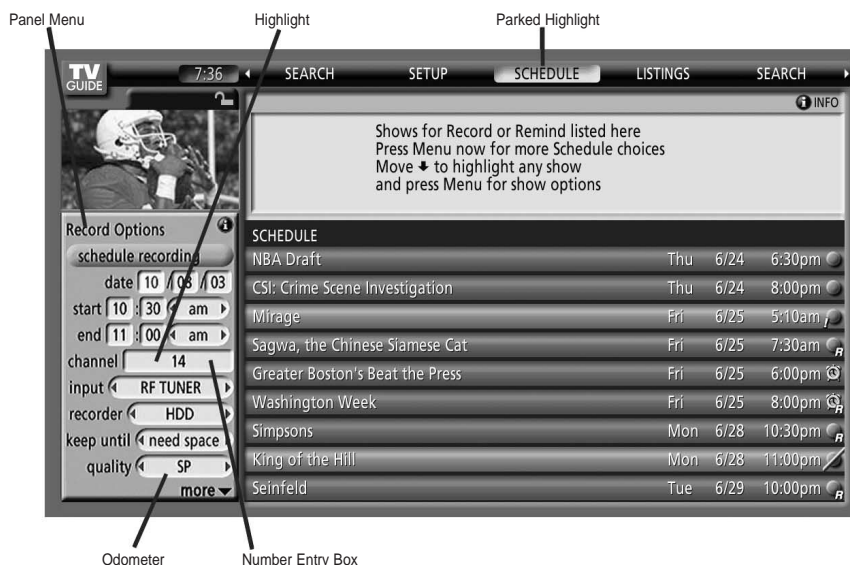
- A Panel Menu appears when the **MENU** or **ENTER** (context dependent) button is pressed on a highlighted tile and additional options are available.
- When a Panel Menu appears, the highlighted tile is parked (changes color).
- The Panel Menu displays over the Panel Ad and below the Video Window.
- Panel Menu options within a Service are described in each respective Service section.
- The up and down arrow moves between the options within the Panel Menu.
- The left and right arrows move to adjacent options unless highlight is on an odometer, where left/right arrows change the odometer choice.

- If a Panel Menu contains more menu options than can be displayed on a single screen, a more ▼ icon appears at the bottom of a menu.

Pressing **ENTER** from an odometer or number entry box moves the highlight to the **default command** button of that Panel Menu (for example, Schedule Reminder).

- Pressing **ENTER** from a highlighted command button executes the action and closes the Panel Menu.

- Select Cancel and press **ENTER** to close this menu, revert to previous settings, and return to the parked tile.

- Pressing the MENU button at any location in the menu cancels any option changes made during this session, reverts to previous settings and returns the highlight to the parked tile.

Screen

English **- 137**

Guide Navigation

When you enter the Guide while watching TV, the highlight appears on the currently watched show in Listings.
Use the arrow buttons on the remote control to highlight any show and then **ENTER** to tune to that show. You can scroll left or right to view additional days to a maximum of seven.

For setting recordings, reminders, and additional options, press the **MENU** button to display a Panel **MENU** with options for the currently highlighted program.

To access another Guide Service, use the up arrow to highlight the **LISTINGS** Service Label. Use the left or right arrow to highlight a different Service and then the down arrow to use that Service. Helpful information about each Service appears in the **Info Box.**

✎

NOTE

■ When in the Guide, pressing the **TV GUIDE** button on the remote control will always tune to the TV show displayed in the Video Window.

Remote Control

The following table describes remote control actions related to the Guide.

Button	Description
TV Guide	• When watching TV, enters the Guide and highlights a show listing • When in the Guide, returns to watching TV and displays the show in the video window
▲, ▼, ◄, ►	• Provides directional control
ENTER	• Makes a selection or executes an action • With a currently airing show listing highlighted, returns to watching TV and tunes to the show channel • With a future airing show listing highlighted, displays a Panel Menu with viewing options
MENU	• Displays the Panel Menu from which you can choose options (e.g., record, remind, keyword, etc.)
INFO	• Cycles between levels of information, as available, in a Service or other type of screen
REC	• When in the Guide or watching TV, initiates the recording process
PAGE UP/DOWN ⌃/ ⌄	• When in the Guide, moves, when applicable, from one set of screen information to the next
NUMBERS	• Provides numeric entries for direct tuning, priority ordering, and channel editing

Listings

Access Listings by pressing the **TV GUIDE** button on your remote. Listings is always the first Service displayed in the Guide.

With Listings highlighted, press the **INFO** button to display a Help screen. Press the **INFO** button again to close the screen.

Use the up/down/left/right arrow buttons to move the highlight within **LISTINGS** to

- View show listings for today plus 7 days (8 days total)
- Read show descriptions
- Tune directly to a show currently airing
- Set a show to Remind
- Set a show to Record
- Lock and unlock the Video Window
- Access Panel and Channel Ads

Screen 1
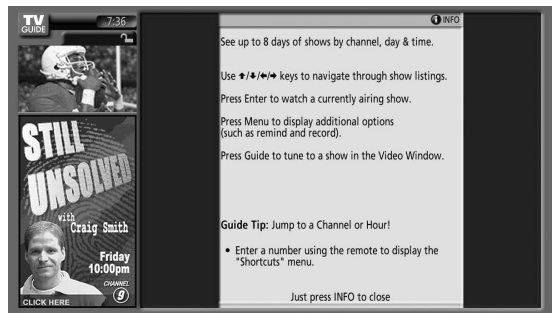
Search

Search lets you find shows by category (HDTV, Movies, Sports, Children, Educational, News, Variety, Series), Keyword, or Alphabetical.

▌ Category Search Example: Movies

1 With Search highlighted, press the **INFO** button to display a **Help** screen.

Screen 1

2 Press the **INFO** button again to close the screen.

Screen 2
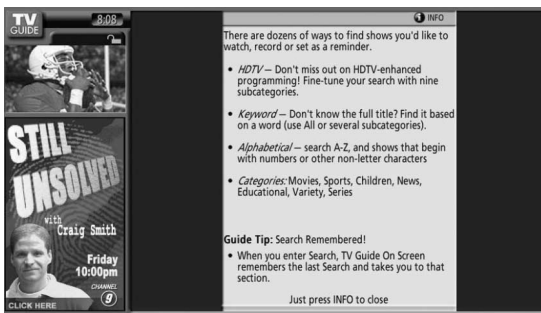
3 From Search, use the down arrow to highlight **Movies**.

Screen 3

✎

NOTE

Panel Menu Navigation

■ Press the Info button to display a Help screen. Press the Info button again to close the screen.

■ The up and down arrows move the highlight among the options within a Panel Menu. The number buttons on the remote are used to input information.

■ An odometer option has arrows on both sides. Use the left and right arrows to cycle through the different options.

■ Press ENTER from an option to highlight the default command button (e.g., Done). Press ENTER again to execute the action and close the panel menu.

■ Select CANCEL, and press ENTER to close the menu and return to the previous screen, or press MENU on the remote to cancel any changes and close the menu.

---

4 Use the down arrow to highlight a subcategory (for example, All).

Press **ENTER** to display a list of all **Movies,** organized by date and time.

Screen 4

---
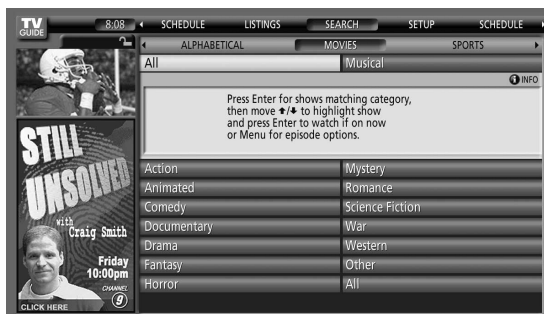
5 Highlight a show and press **ENTER** to watch (if On now) or the **MENU** button to display the **Episode Options menu.**

Screen 5

---

6 In the **Episode** Options menu, you can choose to set a recording, a reminder, or tune to the channel.

• **Go to Service Bar -** closes the menu, changes no information, and returns to the Search Service Bar.

• **Tune to Channel -** exits the Guide and tunes to the channel of the highlighted show (show airs in the future).

• **Set Recording** - displays the Record Options menu, from which you can set frequency, start and end time, etc

• **Set Reminder -** displays the Remind Options menu, from which you can set frequency (once, regularly, weekly), start time, automatically power On, and auto-tune the TV.

• automatically power On, and auto-tune the TV.

• **Cancel -** closes the menu, changes no information, and returns to the highlighted show.

Screen 6

✎

NOTE

This option displays Watch Now if the show is currently airing.

English **- 141**

▌ Keyword Search Example

Keyword search lets you enter a word(s) for a particular show title found in the Listings and Recordings Services.

1 Highlight the **KEYWORD** Section Bar, and press **ENTER** to display the **Keyword Search menu.** Highlight **New Search,** and press **ENTER.**

Screen 1

2 The **Search Options** menu is displayed. Highlight Category, and use the left/right arrows to select a category to search (e.g., All, HDTV, Children, Sports, etc.). When finished, use the down arrow to highlight **Enter Keyword.**

Screen 2

3 The keyboard is displayed. Use the arrow buttons to highlight a **character**, and press **ENTER** to display it. When complete, highlight **Done** and press **ENTER.**

Screen 3

4 A list of all matching shows for that keyword is displayed.

Like the Category Search Example, you can highlight a show, and press **ENTER** to display all airings.
You can then highlight a specific show listing and press **ENTER** to watch (if On now), or the **MENU** button to display the **Episode Options** menu.

From the Episode Options menu, choose **Set Recording, Set Reminder**, or **Tune to Channel**, as previously described.

Screen 4

5 The Guide stores all the keywords you create. To edit or delete a keyword, highlight the keyword, and press the **MENU** button. A **Search Options menu** is displayed.

- **Go to Service Bar** - closes the menu, changes no information, and returns to the Search Service Bar.

- **Edit Search** - displays the keyboard, where you can change the keyword.

- **Delete Search -** A Confirm menu is displayed.

  -Yes : deletes the Search
  - No : closes the panel menu

- **Cancel -** closes the menu, changes no information, and returns to the highlighted show.

✎
NOTE The Guide can store a maximum of 250 keyword entries.

Screen 5

Screen 5-1

Recordings

Recordings displays list of previously recorded or currently recording shows.

1 With Recordings highlighted, press the **INFO** button to display a Help screen. Press the **INFO** button again to close the screen.

Screen 1

Screen 2

2 Press the ▲▼ buttons to highlight the show and then pressing the **MENU** button to display the **Recordings Options** menu. Use the up and down arrows to choose between the following :

- **View As**, use the left and right arrows to choose between
- Group : Recorded shows are listed without listing every recorded episode (see example in Screen 2)

English **- 143**
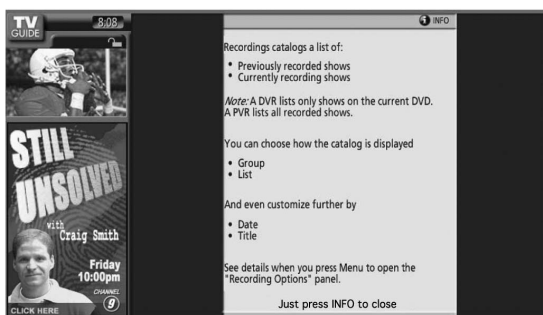
- List : Displays a complete list of every recorded episode for a show(see example in Screen 2-1)

• **Sort By**, use the left and right arrows to choose between
- Title : shows are displayed in alphabetical order (see example in Screen 2)
- Date : Shows are displayed by date and time, with most recent date and time first (see example in Screen 2-1)

When finished, press **ENTER** to highlight Done, Press **ENTER** again to close the menu and display the Recordings with the selected options.

• **Cancel -** Closes the menu, changes no information, and returns to the highlighted Service bar.

Screen 2-1

---

3 In List View, highlight an episode. An Info box provides show information. Press the Menu button to display the Episode Options menu.

---

4 In Group View, highlight a show and press **ENTER** to view a summary for all the recorded shows along with the episode list(Press **ENTER** again to close the episode list).

Screen 3

---

5 Highlight a specific episode and press the Menu button to display the Episode Options menu.

To view an episode, you can do one of the following :

• highlight an episode, and press **ENTER** to view it now. The episode either starts from where it was last stopped (if viewed previously) or from the beginning.

• Highlight an episode and press the **MENU** button to display the **Episode Options** menu.

- **Go to Service Bar** : closes the menu, changes no information, and returns to the **Schedule Service** Bar.

- **Resume** : starts from where it was last stopped (if viewed previously) or from the beginning.

- **Play from Beginning** : starts from the beginning, even if stopped previously.

- **Delete Episode** : deletes the episode from the Recordings. A Confirm menu is displayed.

  Yes : deletes the episode.
  No : closes the panel menu.

- **Cancel** : closes the menu, changes no information, and returns to the highlighted show.

Screen 5

Screen 5-1

144 - English

✎
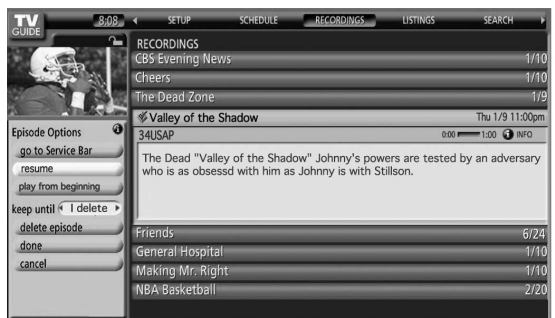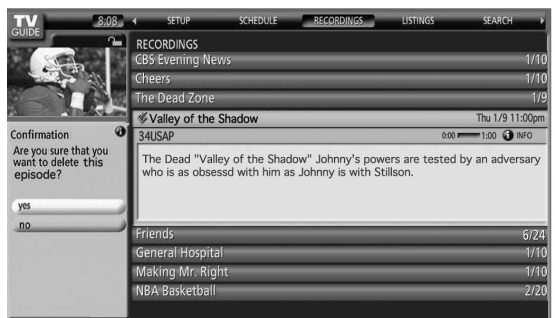
NOTE

Panel Menu Navigation

■ The up and down arrows move the highlight among the options within a Panel Menu. The number buttons on the remote are used to input information.

■ An odometer option has arrows on both sides. Use the left and right arrows to cycle through the different options. Press ENTER from an option to highlight the default command button (e.g., Done, Resume). Press the ENTER again to execute the action and close the Panel Menu.

■ Select CANCEL and press ENTER to close the menu and return to the previous screen, or press MENU on the remote to cancel any changes and close the menu.

Schedule

Schedule lets you review, edit, or delete Record and Remind events that you set previously.

1 With **SCHEDULE** highlighted, press the **INFO** button to display a Help screen. Press the **INFO** button again to close the screen.
An icon identifies the event type:

Record

• Once 🔵 : records the show one time

• Regularly ⓡ : the show title appears on any day of the week, on the same channel and is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

• Weekly ⓦ : the show title appears on a specific day of the week and is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

• Off ⬛ : keeps the show in the list but will not record this show until the frequency is changed

Screen 1

Screen 1-1

English **- 145**
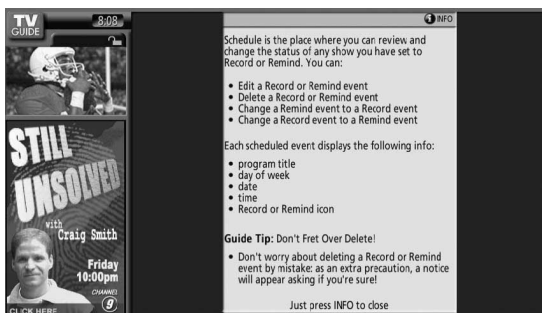
Remind

- Once ⏰ : sets a show reminder one time

- Regularly 🗓 : the show title appears on any day of the week, on the same channel and is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

- Weekly 📅 : the show title appears on a specific day of the week and is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

- Off 🚫 : keeps the show in the list but will not remind until the frequency is changed

2 Highlight an **event**, and press the **MENU** button for Schedule Options.

- **Go to Service Bar -** closes the menu, changes no information, and returns to the Schedule Service Bar.
- **Tune to Channel -** exits the Guide and tunes to the channel of the highlighted show (show airs in the future).

✎
NOTE

- This option reads Watch Now if the show is currently airing.

- Recording and Reminder options vary depending on whether the highlighted program is for a recording or reminder event.

- **Set Recording** - opens a menu from which you can set a recording for the show (Reminder is not cancelled).

- **Delete Reminder -** removes the Reminder from the Schedule, after a Confirm screen.

- **Edit Reminder -** opens a menu from which you can change existing reminder information.

- **Cancel -** closes the menu, changes no information, and returns to the highlighted show.

Screen 2

◈ **Panel Menu Navigation**

NOTE

- Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

- The up and down arrows move the highlight among the options within a Panel Menu. The number buttons on the remote are used to input information.

- An odometer option has arrows on both sides. Use the left and right arrows to cycle through the different options.

- Press ENTER from an option to highlight the default command button (e.g., Done). Press ENTER again to execute the action and close the Panel Menu.

- Select Cancel and press ENTER to close the menu and return to the previous screen, or press Menu on the remote to cancel any changes and close the menu.

Setup

After you initially complete Guide Setup, you can make changes to existing Guide settings in the following areas:

• Change System Settings
• Change Channel Display
• Change Default Options

1 With **SETUP** highlighted, press the **INFO** button to display a **Help** screen. Press the **INFO** button again to close the screen.

2 Highlight a choice, press **ENTER**, and follow the on-screen instructions.

Screen 1

Screen 2

English **- 147**
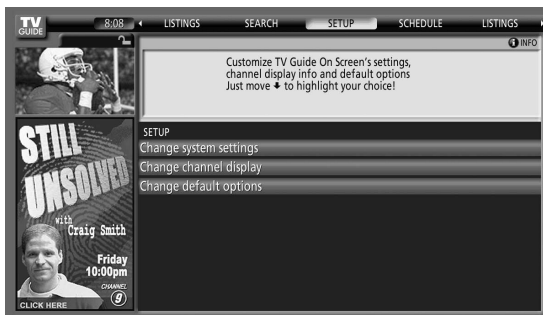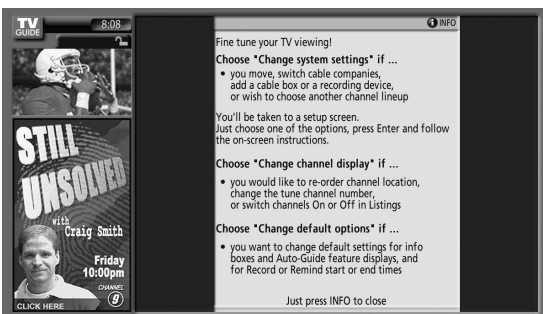
Change System Settings

Change System Settings lets you change your channel lineup as well as any updates to the information you entered during initial Guide setup (e.g., ZIP code, cable, antenna, recorder, etc.).

1 Press **ENTER** to display the **Confirming Your Settings** screen. You see your current settings.

Screen 1

2 Choose one of the options, press **ENTER**, and follow the on-screen instructions.
(Refer to page 157 about Guide Setup.)
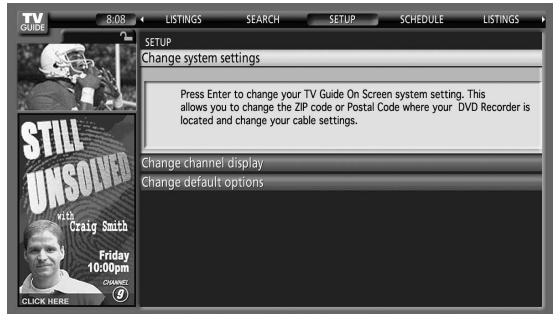
Screen 2
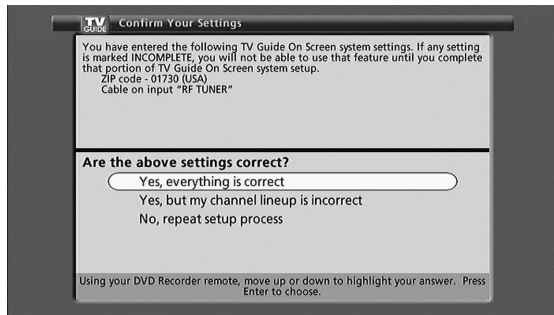
Change Channel Display

1 **Change Channel Display** lets you edit channel information that appears in Listings. With Change Channel Display you can

- Switch a channel
  - **On** : the channel is always displayed in Listings
  - **Off** : the channel is never displayed in Listings
  - **Auto-Hide** : the channel is only displayed when program information is available

Screen 1

✎
NOTE
The default setting for each channel is set by the transmitted data.

148 - English
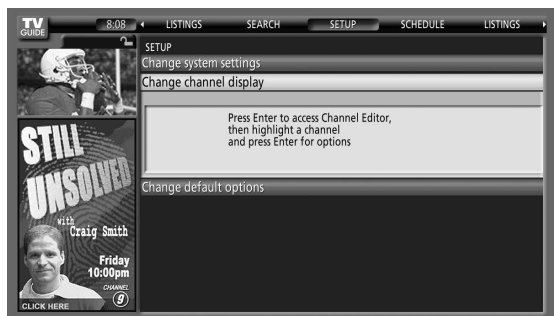
• Change the **service** type if you are able to switch the source of the channel (e.g., cable, cable box, over-the-air, antenna, etc.)

• Change the **tune channel** number using your remote control.

• Enter a **position** number in the number entry box
  - The position number determines where in Listings the channel displays
  - That number can range from 1 (top position) to the total number of channels in Listings

Screen 2

**2** Press **ENTER** to display the **CHANNEL EDITOR** screen.

NOTE Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

3 When finished, press **ENTER** to highlight **Done**. Press **ENTER** again to close the menu and accept the changes.

NOTE If you do not wish to save the changes:
Highlight **Go Back to Setup** and press **ENTER** to close the menu, change no information, and return to the Setup Service Bar.

or

Highlight **Cancel** and press **ENTER** to close the menu, change no information, and return to the highlighted channel.

English **- 149**
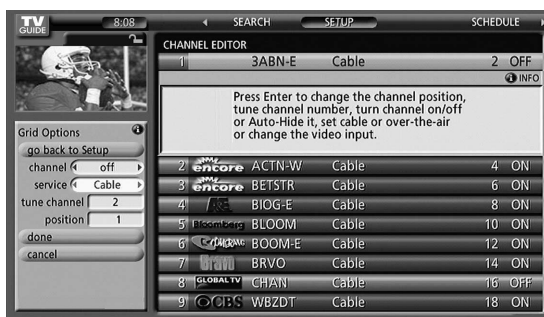
▍ Change Default Options

Change Default Options lets you change default settings in the following categories:

• General Defaults
• Record Defaults
• Remind Defaults

Screen 1

1 Highlight **Change Default Options**, and press **ENTER.**

▍ General Default Options

Screen 1-1
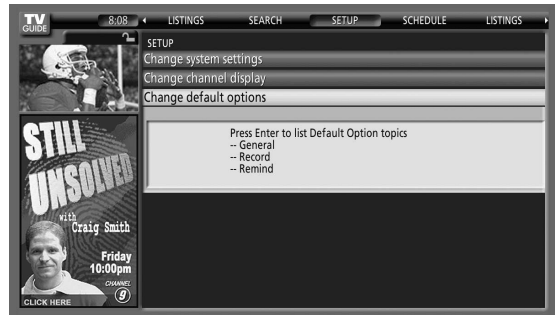
1-1 **General Default** Options lets you set defaults for the following:

   • The initial **Info Box size** when the Guide is entered. Choices are No, Small, Large, and Last Used (default)

   • The **Info Box cycles** when the **INFO** button is pressed while in the Guide.Choices are No only, Small only, Large only, No & Small, No & Large,Small & Large, All (default)
      - No only : No Info Box
      - Small only : Small Info Box
      - Large only : Large Info Box
      - No & Small : You can toggle between No or a Small Info Box
      - No & Large : You can toggle between No or a Large Info Box
      - Small & Large : You can toggle between a Small or Large Info Box
      - All(default) : You can toggle between No, or a Small or Large Info Box

   • Automatic entry into the Guide (**Auto-Guide**) when the TV is powered On.
   Choices are On (default) and Off

Screen 2

2 Highlight **General Defaults,** and press the **MENU** button to display the **General Defaults** menu.

✎

NOTE

Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

3 When finished, press **ENTER** to highlight **Done**. Press **ENTER** again to close the menu and accept the changes.

✎

NOTE

If you do not wish to save the changes: Highlight **Go to Service Bar** and press **ENTER** to close the menu, change no information, and return to the Setup Service Bar.

or

Highlight **Cancel** and press **ENTER** to close the menu, change no information, and return to the highlighted channel.

Record Defaults

1-1 Record Defaults lets you set defaults for the following:

- When to **start** the record event. Choices are 120 minutes early to 120 minutes late, to On time (default)
- When to **end** the record event. Choices are 120 minutes early to 120 minutes late, to On time (default)
- **Recorder** choice
- **Keep Until** to keep a record event (if applicable)
- The **Quality** of the recording (if applicable)

2 Highlight **Record Defaults,** and press the **MENU** button to display the **Record Defaults** menu.

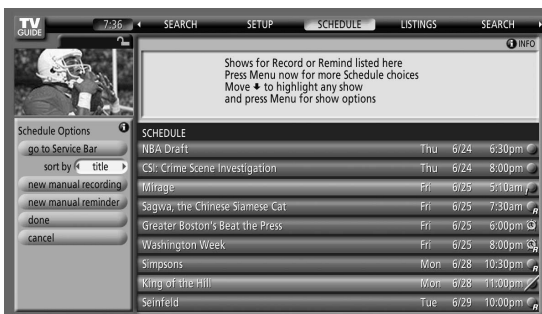**Screen 1-1**

Screen 2

✎

NOTE

Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

English **- 151**

3 When finished, press **ENTER** to highlight **Done.**
Press **ENTER** again to close the menu and accept
the changes.

✎
NOTE

If you do not wish to save the changes:
Highlight **Go to Service Bar** and press **ENTER**
to close the menu, change no information, and
return to the Setup Service Bar.

or

Highlight **Cancel** and press **ENTER** to close
the menu, change no information, and return to
the highlighted option.

▌ Remind Defaults

1 **Remind Defaults** lets you set defaults for the
following:

• **Auto Tune** DVD RECORDER to the channel, when
a Reminder is scheduled. Choices are Yes and No
(default).

• **When** to display the reminder screen. Choices are
30 seconds to 15 minutes early, to 30 seconds to
15 minutes late, to On time.
Default = 1 min early.

2 Highlight **Remind Defaults**, and press the **MENU**
button to display the **Remind Defaults** menu.

✎
NOTE

Press the INFO button to display a Help
screen. Press the INFO button again to
close the screen.

3 When finished, press **ENTER** to highlight Done.
Press **ENTER** again to close the menu and accept
the changes.

Screen 1
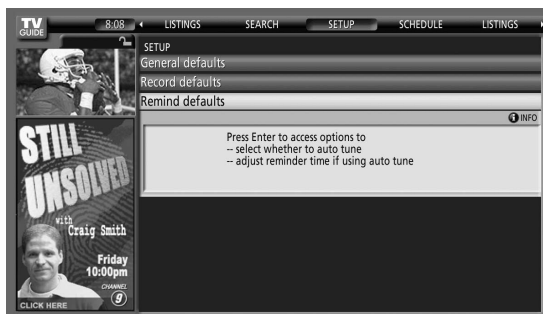
Screen 2

✎
NOTE

If you do not wish to save the changes:
Highlight **Go to Service Bar** and press **ENTER** to close the menu, change no information, and return to the Setup Service Bar.

or

Highlight **Cancel** and press **ENTER** to close the menu, change no information, and return to the highlighted channel.

Record

You can set a show to Record in **LISTINGS, SEARCH,** and **SCHEDULE** or **change Record settings** for a show in **SCHEDULE**.

There are 3 ways to set a show to Record:

Using the Record Button on the Remote

1 Press the **REC** button on the remote to record the show Once with current default settings (Start and End recording On Time). Each time you press the **REC** button, you change the record frequency (but not the default settings) among Once (default), Regularly, Weekly, and then Cancel.

✎
NOTE

The applicable Record icon(🔴) appears on the show title, as the **REC** button is pressed.

Using a Panel Menu

1 Highlight a show, and press the **MENU** button to display the **Episode Options** menu.

Screen 1

Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

Screen 1-1

- Highlight **Set Recording,** and press **ENTER** to display the Record Options menu.

- Highlight the **Frequency** option, and use the left and right arrows to choose between Once, Regularly, Weekly, and Off, as previously described.

- Highlight the **Start** or **End** option, and use the left and right arrows to choose between options that range between 120 minutes early to 120 minutes late, to On time (default).

- **Recorder** choice (DVD or HDD)

- **How long** to keep a record event (if applicable).

- **Keep Until** for a record event (if applicable).

- The **Quality** (SP, LP, EP, XP) of the recording (if applicable).

Screen 2

2 When finished, press **ENTER** to highlight **Schedule Recording.** Press **ENTER** again to close the menu. You see a Record icon for the selected frequency next to the show title.

Highlight **Cancel** to close the menu, change no information, and return to the highlighted show.

- Once : records the show one time

- Regularly : the show title appears on each day the program is broadcast, on the same channel.

- Weekly : the show title appears on a specific day of the week.

- Off (not cancel) : keeps the show in the list but will not record this show until the frequency is changed

- Cancel (no icon displayed) : does not record

Using Manual Recording

1 Highlight **Schedule,** and press the **MENU** button to display the **Schedule Options** menu.
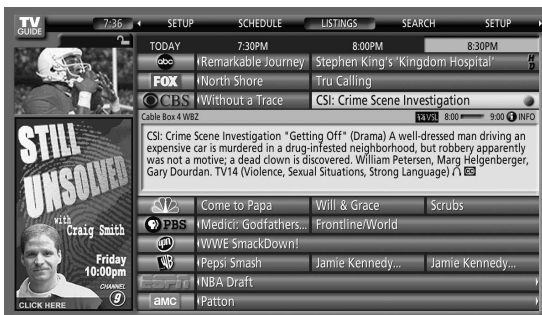
Screen 1

<table>
<tr><td>✎
NOTE</td><td>Press the INFO button to display a Help screen. Press the INFO button again to close the screen.</td></tr>
</table>

2 Use the arrow buttons to move through the options. Use the number or arrow keys to change the information, as necessary.

3 Highlight **New Manual Recording** and press **ENTER** to display the **Record Options** menu.

- Current information (i.e., **date, start** and **end** times, channel, input) is displayed. Use the arrow buttons to change the information.

- **Recorder** choice

- **Keep Until** for a record event (if applicable).

- The **Quality** of the recording (if applicable).

<table>
<tr><td>✎
NOTE</td><td>Press the INFO button to display a Help screen. Press the INFO button again to close the screen.</td></tr>
</table>

- Use the left and right arrows to choose **Frequency** between Once, Daily, Weekly, and Off, as follows.

  - Once ⬤ : records the time, channel, input, recorder combination one time

  - Daily 🄳 : records the time, channel, input, recorder combination Monday through Friday

  - Weekly 🅆 : records for the channel/time combination on a specific day of the week

  - Off (not cancel) ⬛ : keeps the time, channel, input, recorder combination in the list without recording until the frequency is changed

Screen 3

Screen 3-1

4 When finished, press **ENTER** to highlight **Schedule Recording**. Press **ENTER** again to close the menu.
You will see a Record icon for the selected frequency next to the show title.

✎ **NOTE** Manual recording is listed by channel number.

If you do not wish to save the changes:
Highlight **Cancel** and press **ENTER** to close the menu, change no information, and return to the highlighted show.

• Before recording begins and if your TV is On, a notification screen appears. At that time, you can choose to start or cancel recording. If the TV is not On, the recording occurs as scheduled. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item.

Record Conflict

A conflict message appears for the following reasons:

• a show set to Record overlaps with any part of another show previously set to Record

• a show set to Record overlaps with a show previously set to auto-tune

Select one of these options:

• record anyway - this show will override an existing show set to Record or auto-tune

• don't record this show - cancels the Recording

Screen 4
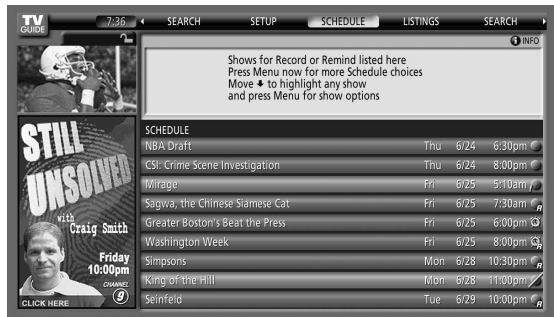
Screen 4-1
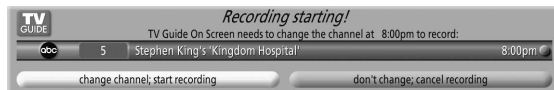
Screen 1

Screen 1-1
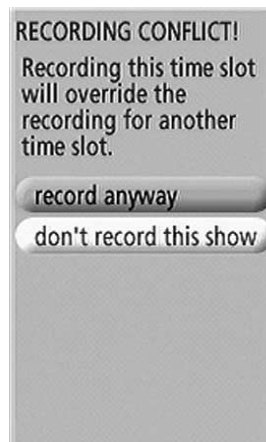
✎

NOTE

Panel Menu Navigation

■ Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

■ The up and down arrows move the highlight among the options within a Panel Menu. The number buttons on the remote are used to input information.

■ An odometer option has arrows on both sides. Use the left and right arrows to cycle through the different options.

■ Press ENTER from an option to highlight the default command button (e.g., Set Recording, Set Reminder, Schedule Recording, Done). Press ENTER again to execute the action and close the Panel Menu.

■ Select Cancel and press ENTER to close the menu and return to the previous screen, or press Menu on the remote to cancel any changes and close the menu.

Remind

You can change Reminder settings for a show in the Schedule.

There are 2 ways to set a show Reminder:

Using a Panel Menu

1 Highlight a show, and press the **MENU** button to display the **Episode Options** menu.

✎

NOTE

Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

Screen 1

English **- 157**
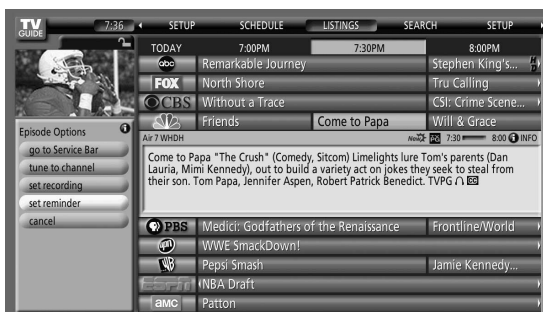
2 Highlight **Set Reminder**, and press **ENTER** to display the Remind Options menu.

• Highlight the **Frequency** option, and use the left and right arrows to choose among

- Once 🕐 : sets a show reminder one time

- Regularly 🕐 : the show title appears on any day of the week, on the same channel **and** is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

- Weekly 🕐 : the show title appears on a specific day of the week **and** is at the midway point of the originally scheduled show (e.g., 8:15 for an 8:00–8:30 program, 9:30 for a 9:00–10:00 program)

- Off 🕐 : keeps the show in the list but will not remind until the frequency is changed

• **Auto Tune**
- Automatically tune TVto the channel, when a Reminder is scheduled. Choices are Yes and No (default).

• **When** to display the reminder screen. Choices are 30 seconds to 15 minutes early, to 30 seconds to 15 minutes late, to On time Default = 1 min early

---

✎
NOTE Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

---

3 When finished, press **ENTER** to highlight **Schedule Reminder**. Press **ENTER** again to close the menu.
You see a Remind icon for the selected frequency next to the show title.

If you do not wish to save the changes:
Highlight **Cancel** and press **ENTER** to close the menu, change no information, and return to the highlighted show.
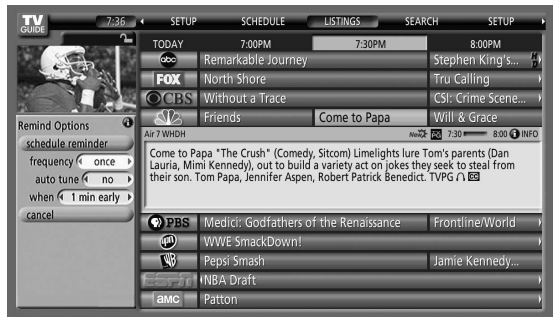
Screen 2

Screen 3
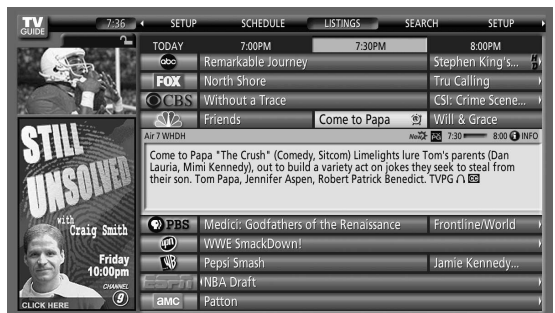
Using Manual Reminder

1 Highlight the **Schedule Service** label, and press the **MENU** button to display the **Schedule Options** menu.

✎
NOTE
Press the INFO button to display a Help screen. Press the INFO button again to close the screen.

---

2 Use the arrow buttons to move through the options. Use the number or arrow buttons to change the information, as necessary.

• Highlight New Manual Reminder and press the ENTER buttons to display the Remind Options menu.

• Current information (i.e., date, start and end times, channel, input, frequency) is displayed.

• Highlight the Frequency option, and use the left and right arrows to choose between Once, Daily, Weekly, and Off, as follows.

- Once 🕐 : sets a show reminder for the time, channel, input, reminder combination one time

- Daily 🕐 : reminds for the time, channel, input, reminder combination Monday through Friday

- Weekly 🕐 : reminds for the channel/time combination on a specific day of the week

- Off (not cancel) 🕐 : keeps the time, channel, input, reminder combination in the list without reminding until the frequency is changed

• **Auto tune** - Automatically tune to the channel when a Reminder is scheduled. Choices are Yes and No (default).

---

3 When finished, press **ENTER** to highlight **Schedule Reminder.** Press **ENTER** again to close the menu. You see a Remind icon (🕐) for the selected frequency next to the show title.

✎
NOTE
Manual reminder is listed by channel number.

If you do not wish to save the changes:
Highlight **Cancel** to close the menu, change no information, and return to the highlighted show.
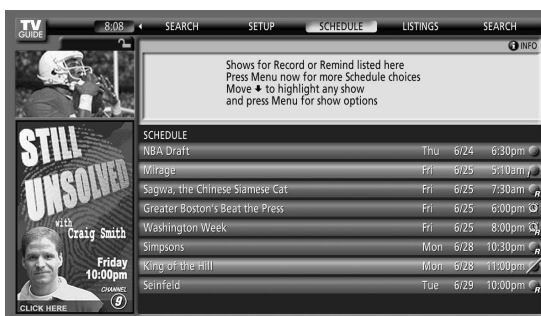
Screen 1
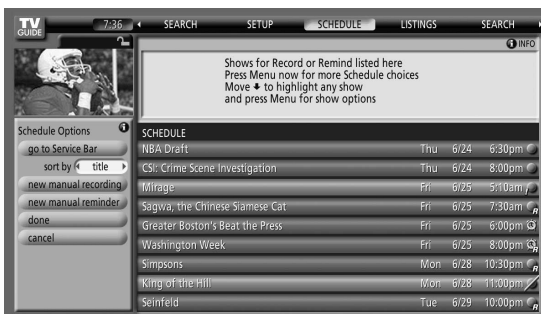
Screen 2

Screen 3

• Based on your option settings and if the TV is On at the reminder time, a notification screen will appear. You can then choose to hide the reminder, or highlight the show, and press **ENTER** to tune to the show. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item (hide reminders).

If you choose Hide Reminders, the window closes for the show or shows, but does not affect other Reminders you set.

Screen 3-1

Screen 3-2

✎ **NOTE**

If more than 2 reminders are set for the same time, arrows appear on the Reminder screen. Use the up and down arrows to view the shows.

Remind Conflict

1 **A conflict message appears for the following reasons:**

• a show set with an **Auto-Tune Reminder** has the same start time as an existing **Auto-Tune Reminder.**

• a show set with an **Auto-Tune Reminder** overlaps with a Recording already scheduled.

2 **Select one of these options:**

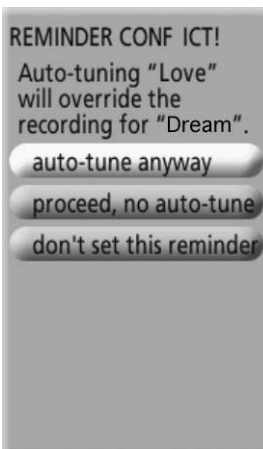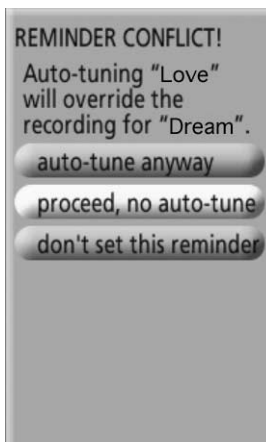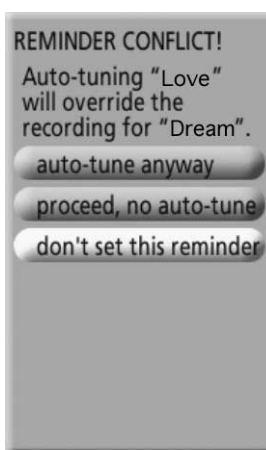• **auto-tune anyway** - this show will override an existing show set to auto-tune

Screen 2

• **proceed, no auto-tune** - set the show as a
  Reminder but do not auto-tune

Screen 2-1

REMINDER CONFLICT!

Auto-tuning "Love"
will override the
recording for "Dream".

auto-tune anyway

proceed, no auto-tune

don't set this reminder

Screen 2-2

• **don't set this reminder** - cancel the Reminder

REMINDER CONFLICT!

Auto-tuning "Love"
will override the
recording for "Dream".

auto-tune anyway

proceed, no auto-tune

don't set this reminder

✎ **Panel Menu Navigation**

NOTE ■ Press the INFO button to display a Help
    screen. Press the INFO button again to
    close the screen.

■ The up and down arrows move the
    highlight among the options within a
    Panel Menu. The number buttons on the
    remote are used to input information.

■ An odometer option has arrows on both
    sides. Use the left and right arrows to
    cycle through the different options.

■ Press ENTER from an option to highlight
    the default command button (e.g., Watch
    Now, Set Reminder, Schedule Reminder).
    Press ENTER again to execute the action
    and close the Panel Menu.

■ Select Cancel and press ENTER to close
    the menu and return to the previous
    screen, or press Menu on the remote to
    cancel any changes, and close the menu.

Frequently Asked Questions(FAQs)

If I add a recorder or change my cable service, how do I change my Setup information?

↓

`Answer 1`
1) Highlight the Setup Service in the Guide.
2) Use the down arrow to select Change System Settings.
3) Follow the on-screen instructions.

A show entry in the Guide reads "No Listing." What does that mean?

↓

`Checkpoint 1`
Show information for that entry was not available during the last Guide information update (download). Show information is updated on a daily basis.

When I entered the Guide, I was asked to choose from more than one channel lineup. What should I do?

↓

`Checkpoint 1`
Select the lineup that most closely matches the one for your area. If after you choose the lineup, you want to make changes

1) Highlight the Setup Service in the Guide.
2) Use the down arrow to select Change Channel Display.
3) Follow the on-screen instructions.

If I have a power outage, do I need to complete Setup again?

↓

`Checkpoint 1`
No, Setup information is stored in TV Guide On Screen.

Is Help available in the Guide? If so, how do I find it?

↓

`Checkpoint 1`
Yes. Highlight any of the 5 main Services (i.e., Listings, Schedule, Recordings, Setup, Search) and press the Info button. An Expanded Info Box displays additional help information; press Info again to close the box. Help is also available in a Panel Menu. Press the Info button to display an Expanded Info Box; press Info again to close the box.

After some show titles, I have noticed from 1 to 4 stars (****). What does that mean?

↓

`Checkpoint 1`
These stars are a broadcast-industry rating system used to inform you of a show's quality. The more stars, the better the rating.

I have seen the word "download" in reference to the Guide. What does that mean?

↓

`Checkpoint 1`
A download sends channel and show information to a TV Guide On Screen device. A download happens about once a day.

Can I set a Record or Remind event without highlighting a show title in the Guide?

⬇

Checkpoint 1   Yes. TV Guide On Screen has a Manual Record and Remind feature. Highlight Schedule and press menu. Choose the event type, press ENTER and then enter date, start and stop time, channel number, etc.

What do the frequencies for Record and Remind mean?

⬇

Checkpoint 1   • Once—records/reminds the show one time
• Daily (manual only)—records the time, channel, input, recorder combination Monday through Friday
• Regularly— records/reminds for the channel/time combination on any day of the week, on the same channel
• Weekly— records/reminds for the channel/time combination on a specific day of the week
• Off (not cancel)—keeps the show in the list but will not record/remind the show until the frequency is changed

How can I look for a specific show in the Guide?

⬇

Checkpoint 1   Search lets you find shows by category (HDTV, Movies, Sports, Children, Educational, News, Variety, Series), Keyword, or Alphabetical.

Troubleshooting

I got listings after my initial Setup; however, some days read "No Listings."

⬇

Checkpoint 1   After initial Setup, it can take up to a week to populate the full 8 days of listings. Once populated, 8 days of information should always be available.

My Guide listings disappeared after a power failure.

⬇

Checkpoint 1   You should begin to receive listings again within 24 hours.

Some channel numbers in the Guide are incorrect.

⬇

Checkpoint 1   You can correct them using Change Channel Display under Setup.

I have not received any Guide show listings.

⬇

Checkpoint 1   Listings begin to appear within 24 hours after a successful Setup.
• Check the connections between the TV, cable, antenna, and the IR cable if using a cable box.
• Verify Setup information under Change System Settings.
• Make sure the cable box is On, if applicable.
• Review Screen 4 and Screen 5 in the Initial Guide Setup section.

A show I set to Record did not occur.

⬇

Checkpoint 1
• Make sure your recorder is turned Off before the recording begins.

Checkpoint 2
• Make sure there is a tape or DVD in the Recorder.

Checkpoint 3
• Check the Schedule menu and verify that the show is listed before recording begins.

Checkpoint 4
• Check the placement of the IR cable in front of your recorder.

The TV did not tune to a show I scheduled with the Reminder feature.

⬇

Checkpoint 1
•Check the Schedule menu and verify that the show is listed.

Checkpoint 2
•If you have a cable box, check the IR cable.

I set a show to Auto-Tune and it did not.

⬇

Checkpoint 1
• Check the Schedule menu and verify that the show is listed as a Reminder.

Checkpoint 2
• Highlight the show under Listings and do the following:
  - Press the Menu button on the remote.
  - Use the down arrow to highlight Edit Reminder, and press ENTER.
  - Verify the Auto-Tune option reads Yes.

Checkpoint 3
• The TV must be On at the scheduled time for Auto-Tune.

I set a show with the Power On TV option and it did not.

⬇

Checkpoint 1
• Check the Schedule menu and verify that the show is listed as a Reminder.

Checkpoint 2
• Highlight the show under Listings and do the following:
  - Press the Menu button on the remote.
  - Use the down arrow to highlight Edit Reminder, and press ENTER.
 - Verify the Power On TV option reads Yes.

Checkpoint 3
• The DVD RECORDER must be Off at the scheduled time for Power On TV.

TV Guide on Screen Glossary

• **1394** - High-speed port that is used to transfer certain types of data in real-time, such as video

• **Antenna** - Receives over-the-air (OTA) broadcast signals for channels which may appear in Listings

• **Arrow buttons** - Up/down and left/right buttons on the remote are used to move around in the Guide or perform Guide-related activities while watching TV (e.g., set a Reminder notification)

• **Auto-Tune** - Reminder Panel Menu option that lets you choose to have the DVD RECORDER automatically tune to the channel—if you are watching it at the time

• **Cable Ready** - A device that does not require a cable box to receive cable programming

• **Channel Ad** - A promotion that appears within a Listings section

• **Channel Editor** - A feature accessed through Listings or Setup that allows you to re-order, change the channel number, or switch a channel On or Off in Listings

• **Channel Logo** - An icon that identifies the network

• **Direct Dialing** - Access to any channel within Listings by entering a channel number on the remote

- **Direct Tune** - When a show currently airing is highlighted in the Guide, pressing the ENTER button on the remote closes the Guide and tunes to the show

- **Digital Video Disc (DVD) Recorder** - A recorder that stores show data on a recordable DVD for later viewing on a DVD player

- **Expanded Info Box** - A window that covers the right side of the Guide and provides additional information about a topic. This window appears for a highlighted Panel Ad or Channel Ad, or when the Info button is pressed in a Panel Menu when highlighting one of the main Services

- **Frequently Asked Questions (FAQs)** - questions and answers for users, based on their past product experience

- **Guide** - TV Guide On Screen Interactive Program Guide that provides show listings, search, schedule, recordings, and setup capabilities

- **Highlight** - A visual cue indicating the current area of focus

- **Icons** – Symbols representing features or services. For example,

  ⋂ = stereo; ⟨⟨ = closed caption; ● = record;

  🕐 =remind; ❶ INFO = information available

- **Info Box** - Contains text describing the currently highlighted area in the Guide that may be in the form of help text or information about the highlighted area (e.g., show description)

- **Info Button** - A remote control button that is used to cycle between Info box sizes, as available; page forward, if there are more pages of information (e.g., Panel Ad); or access Help text, as available

- **Initial Setup** - After your device is connected, setup your Guide so you can receive program listings and use Guide recording capabilities; if Setup in not completed initially, the Setup Reminder Screen appears next time

- **Interactive Program Guide (IPG)** - a design from TV Guide On Screen that provides channel lineup and 8 days of show listings from which you can Sort by category or keyword, and set shows to Record or Remind

- **IR Cable** - A connection or device that sends remote commands to a separate cable box

- **Keyword Search** – The ability to enter a word to search for a particular show

- **Lineup** - Channel and show information in a broadcast or cable system area based on information you provided during Setup

- **Listings Service** - The first point of entry in the Guide where you can view up to 8 days of listings and show descriptions, tune to a show, set a show to record or remind, etc.

- **Lock/Unlock** - When locked , the Video Window does not change as you move through Listings; when unlocked , the Video Window does change

- **Menu Button** - A remote control button that is used to display a Panel Menu

- **Number Entry Box** – A Panel Menu option in which you use your remote to enter numbers

- **Odometer** - A Panel Menu option that lets you make a selection using left and right arrow buttons

- **On Screen Display (OSD)** - A graphical display that overlays a portion of the TV video (e.g., Reminder notification)

- **One-Touch Recording** – An action which allows you to set a show to record by highlighting it in the Guide and pressing Record on the remote

- **Over the Air (OTA)** - A device that receives broadcast signals by antenna, as opposed to cable

- **Panel Ad** - A promotional area that appears below the Video Window

- **Panel Menu** - A selection of options which appears in the Panel Ad area and contains a list of all options that apply to the Parked Highlight

Screen

• **Panel Menu Option** - Any option displayed in a Panel Menu (e.g., Done, Start, Auto-Tune, Channel, Cancel, etc.)

• **Parked Highlight** - When a Panel Menu is displayed, indicates the object to which the Panel Menu applies

• **Playback bar** – An OSD that is overlaid on top of the TV Video that provides progress bar and status information for the playback of a recording.

• **Program Info Bar** - An OSD that provides a quick way to identify current channel and show information

• **Progress Bar** - A function in the show-related Info box, the Playback bar and the Program Info Bar displays how much of the show has already elapsed and the start and finish times

• **Record** – A setting to create a Record event for a show, or Channel Ad or Panel Ad linked to a show and also customize the record options (start time, frequency, etc.)

• **Record Conflict** - A message that appears for the following reasons:
  - a show set to Record overlaps with any part of another show previously set to Record

  - a show set to Record overlaps with a show previously set to Auto-Tune

• **Record Notification Screen** - A message that appears when a scheduled show is about to record

• **Recordings Service** – A feature which displays previously recorded or currently recording shows on a DVR or the currently inserted DVD in a DVD Recorder

• **Remind** - You can set a Remind event for a show, or Channel Ad or Panel Ad linked to a show and also customize the remind options (start time, frequency, auto-tune, etc.)

• **Reminder Conflict** - A message that appears for the following reasons:

  - a show set with a Reminder has the same start time as an existing Reminder

  - a show set with a Reminder overlaps with a show previously scheduled to Record

• **Reminder Notification Screen** - A message that appears when a scheduled show is about to begin

• **Search Service** - A feature that lets you find shows by category (HDTV, Movies, Sports, Children, Educational, News, Variety, Series), Keyword, or Alphabetical. Once a show is found, you can watch it (if airing currently), or set a Record or Remind event

• **Service Bar** - The access point to Guide features: Listings, Search, Schedule, Recordings, Setup

• **Setup Reminder Screen** - If you do not Setup the Guide during Initial Setup, this screen lets you choose to Setup now, later, or do not remind again

• **Setup Service** - A feature that lets you modify existing Guide settings, modify option settings (e.g., Record defaults), or change channel display settings

• **Schedule Service** - A feature that lets you review, edit, or delete Record and Remind events you previously set

• **Video Window** - The video area that appears in the top left corner in the Guide

Warranty

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for the following limited warranty period:

One (1) Year Parts / Ninety Days (90) Labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States, and does not include transportation, installation, removal or reinstallation. Warranty repairs must be performed by SAMSUNG's authorized service center. To receive warranty service, the original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. The product must be returned during the warranty period with transportation charges prepaid to SAMSUNG's designated service center. Prior to returning any product for warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. SAMSUNG does not warrant uninterrupted or error-free operation of the product. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; applications and uses for which this product was not intended; failures or problems which are caused by products or equipment not supplied by SAMSUNG; accidents, misuse, abuse, neglect, misapplication, fire, water, lightning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper or faulty installation; improper connection with any peripheral; product alteration or modification; improper or unauthorized repair; cosmetic damage or exterior finish; product with altered serial numbers; failure to follow operating instructions, customer adjustments, maintenance and environmental instructions that are covered and prescribed in the instruction book; use of non-SAMSUNG or unauthorized parts, supplies, accessories or equipment which damage this product or result in service problems; failures or problems due to incompatibility with other equipment.

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